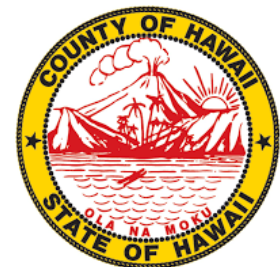


Qualifications to Provide Professional Services for the Fiscal Year 2024-25



Submitted to
County of Hawai'i
Department of Environmental Management



Submitted by
Oceanit





30 June 2024

Mr. Douglass Adams, Director
Director of Research & Development, County of Hawai'i

SUBJECT: Qualifications to Provide Professional Services for the Fiscal Year 2024-25

Dear Mr. Adams:

Oceanit is pleased to submit our letter of interest and qualifications to Research and Development Department to provide professional services under the categories identified below:

- **RD.1 Community Planning (Community and Economic Development, Community Engagement, Culture and Indigenous Data Science, Strategic Planning, Sustainability Systems)**

Oceanit's **Resilient Sustainable Engineering (RiSE)** group has proudly provided diverse planning and engineering project services to public and private clients in Hawai'i and outside for over 39 years. The RiSE team comprises experienced professional civil engineers, coastal engineers, environmental scientists, community planners, drafters/designers, and technicians who have successfully delivered civil, coastal, and environmental engineering design as well as construction management, planning, permitting, and environmental document preparation.

Our submittal package includes:

- Key Personnel Resumes and Qualifications
- Example Projects of Community Planning
- Additional Information (including client references and conflict of interest statement)
- General Qualifications
- Appendix I – Key Personnel Certificates and Professional Licenses
- Appendix II – Oceanit Brochure
- Appendix III – Certificates of Company Insurance and Vendor Compliance

We look forward to the opportunity to provide our professional services. If you have any questions, please feel free to call me at 531-3017 or email me at kcheung@oceanit.com or Dale Uno at duno@oceanit.com.

Sincerely,

Ken Cheung
Director of Strategic Business Units

ARCHITECT – ENGINEER QUALIFICATIONS

PART I – CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION (City and State)

2. NOTICE TO PROVIDERS OF PROFESSIONAL SERVICES, Hilo, HI

2. PUBLIC NOTICE DATE

01 June 2024

3. SOLICITATION OR PROJECT NUMBER

FY 24-25 Notice to Providers of Professional Services

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Dale Uno, Program Administrator/Proposal Manager

5. NAME OF FIRM

Oceanit

6. TELEPHONE NUMBER

808/531-3017

7. FAX NUMBER

808/531-3177

8. E-MAIL ADDRESS

duno@oceanit.com

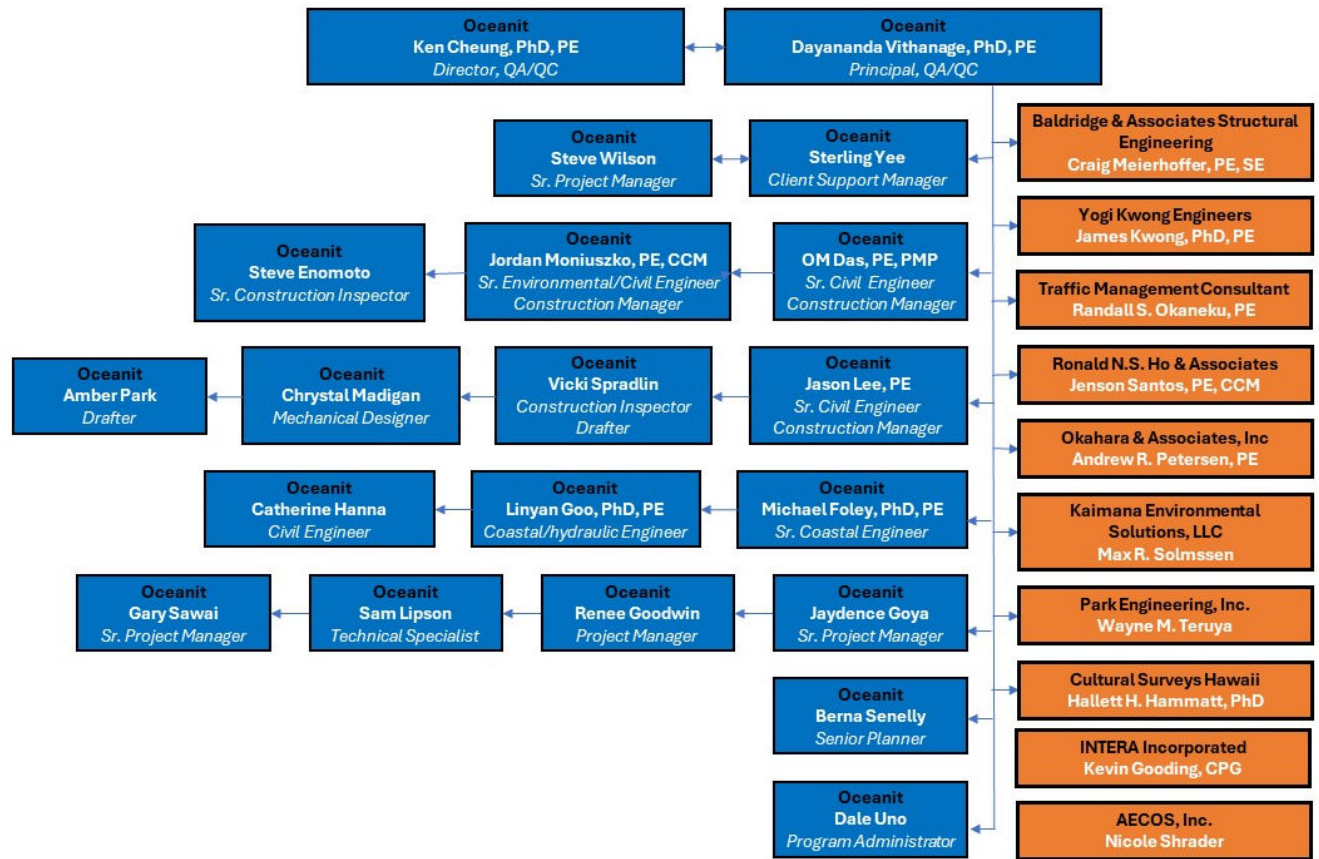
C. PROPOSED TEAM

(Complete this section for the prime contractor and all key subcontractors)

	(Check)					
	Prime	J-V Partner	Subcontractor	9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
a.	X			Oceanit ☐ CHECK IF BRANCH OFFICE	828 Fort Street Mall, Suite 600 Honolulu, HI 96813	Prime consultant
b.			X	Baldrige & Associates Structural Engineering, Inc. ☐ CHECK IF BRANCH OFFICE	1164 Bishop Street, Suite 1600 Honolulu, HI 96813	Structural Engineer
c.			X	Yogi Kwong Engineers ☐ CHECK IF BRANCH OFFICE	677 Ala Moana Blvd., Suite 710 Honolulu, HI 96813	Geotechnical Engineer
d.			X	The Traffic Management Consultant ☐ CHECK IF BRANCH OFFICE	1188 Bishop St, Suite 1907 Honolulu, HI 96813	Traffic Engineer
e.			X	Ronald N.S.Ho & Associates ☐ CHECK IF BRANCH OFFICE	2153 N King St, Suite 201 Honolulu, HI 96819	Electrical Engineer
f.			X	Okahara & Associates, Inc. ☐ CHECK IF BRANCH OFFICE	677 Ala Moana Blvd #703 Honolulu, HI 96813	Mechanical Engineer
g.			X	Kaimana Environmental Solutions LLC ☐ CHECK IF BRANCH OFFICE	PO Box 11890 Honolulu, HI 96828	Hazardous Material Inspections/ Environmental Compliance
h.			X	Park Engineering, Inc. ☐ CHECK IF BRANCH OFFICE	711 Kapiolani Blvd, Suite 1500 Honolulu, HI 96813	Land Surveyor
i.			X	Cultural Surveys Hawaii ☐ CHECK IF BRANCH OFFICE	P.O. Box 1114 Kailua, HI 96734	Archaeological and Cultural Studies
j.			X	INTERA Incorporated ☐ CHECK IF BRANCH OFFICE	74 Kihapai Street Kailua, HI 96734	Environmental and Coastal Engineer
k.			X	AECOS, Inc. ☐ CHECK IF BRANCH OFFICE	45-939 Kamehameha Highway, Suite 104 Kaneohe, HI 96744	Benthic and Biological Studies

D. ORGANIZATIONAL CHART OF PROPOSED TEAM

Engineering and Planning



Key Personnel Resumes and Professional Qualifications

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)



12. NAME Ken Cheung, Ph.D., P.E.	13. ROLE IN THIS CONTRACT Director	14. YEARS EXPERIENCE a. TOTAL 33 b. WITH CURRENT FIRM 27	
15. FIRM NAME AND LOCATION (City and State) Oceanit Laboratories, Inc, Honolulu, Hawai'i			
16. EDUCATION (Degree and Specialization) Doctor of Philosophy / Aerospace Engineering / University of Notre Dame / 1997 Master of Science / Mechanical Engineering / University of Notre Dame/1993 Bachelor of Science / Aerospace Engineering / University of Notre Dame / 1991		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Hawai'i / Professional Engineer / 2000 / PE-10020 US DOT Bridge Inspector / 1997 HAZWOPER; SCUBA	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Dr. Cheung is Oceanit's lead Cathodic Protection Engineer. Fully NACE Certified, he leads the design and development teams for Cathodic Protection projects.			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Investigation & Conceptual Remedial Design Fuel Pipeline Leak, Victor 1 Dock, Fleet & Industrial Supply Center, Pearl City Peninsula, O'ahu, Hawai'i	PROFESSIONAL SERVICES 1998	CONSTRUCTION (If applicable) 1998
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Project Scientist: Investigate and assess the extent of subsurface jet fuel contamination in the vicinity of Victor-1 Dock in Pearl Harbor as part of the Comprehensive Long-Term Environmental Action Navy II (CLEAN II) program by the Fleet and Industrial Supply Center (FISC) Pearl Harbor. The project had two objectives: 1. Delineate the extent of JP-8 contamination in soil and groundwater and develop a conceptual remedial design.		
(1) TITLE AND LOCATION (City and State) Coastal Engineering Studies for Brennecke Beach Coastal Revetments	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2000 CONSTRUCTION (If applicable) 2000	
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Project Scientist: Oceanit performed coastal engineering studies to design and protection scheme for Hoone Road in preparation for the removal of a seawall, for \$83K. Coastal engineering field measurements were performed, including offshore bathymetric measurements, water quality sampling and analysis, sand grain size and distribution analysis, and current/wave studies. Environmental documentation was also prepared.		
(1) TITLE AND LOCATION (City and State) Farrington Highway Waterline Cathodic Protection	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2003 CONSTRUCTION (If applicable) 2003	
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Project Scientist: Oceanit engineered a design for a Cathodic Protection (CP) system for approximately 7,315 feet of 24" dia. ductile iron transmission water line for the Board of Water Supply. The CP design incorporated a remote monitoring system for pipeline maintenance. Project cost \$210K.		
(1) TITLE AND LOCATION (City and State) Cathodic Protection for Vancouver Drive and Vancouver Place 20" and 8" water mains, Honolulu, O'ahu, Hawai'i	(2) YEAR COMPLETED PROFESSIONAL SERVICES 1999 CONSTRUCTION (If applicable)	
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Project Scientist: Oceanit engineered a design for a Cathodic Protection (CP) system for ductile iron transmission water line. The CP design incorporated a remote monitoring system for pipeline maintenance. Project cost \$13K.		
(1) TITLE AND LOCATION (City and State) Cathodic Protection of Underground Water Lines at Kolea Cove Offsite Water Access Road, Waipahu, O'ahu, Hawai'i	(2) YEAR COMPLETED PROFESSIONAL SERVICES 1999 CONSTRUCTION (If applicable)	
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Construction Cost: \$50,000 Work included research and review of available geologic and soils information; performance of field resistivity testing and conducting analysis of field and laboratory data; preparation of a formal report summarizing the work, findings and geotechnical engineering recommendations. Oceanit designed a cathodic protection (CP) system for a ductile iron water line, including all appurtenances.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)



12. NAME Dayananda H. Vithanage, PhD, PE		13. ROLE IN THIS CONTRACT Principal, QA/QC		14. YEARS EXPERIENCE <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">a. TOTAL</td> <td style="width: 50%; border: none;">b. WITH CURRENT FIRM</td> </tr> <tr> <td style="border: none; text-align: center;">55</td> <td style="border: none; text-align: center;">34</td> </tr> </table>		a. TOTAL	b. WITH CURRENT FIRM	55	34
a. TOTAL	b. WITH CURRENT FIRM								
55	34								
15. FIRM NAME AND LOCATION (City and State) Oceanit Laboratories, Inc, Honolulu, Hawai'i									
16. EDUCATION (Degree and Specialization) BS, Civil Engineering MS, Coastal Engineering PhD, Ocean Engineering			17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Civil Engineer, Hawai'i						
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Dr. Vithanage is responsible for overseeing the technical quality of each project. He reviews project deliverables for quality assurance and quality control (QA/QC). He is involved with all stages of projects at Oceanit. He has served as the principal investigator for many coastal, civil, environmental, watershed, and environmental remediation projects throughout the state.									
19. RELEVANT PROJECTS									
a.	(1) TITLE AND LOCATION (City and State) Honouliuli Wastewater Treatment Plant 'Ewa Beach, Hawai'i		<table style="width: 100%; border: none;"> <tr> <th colspan="2" style="border: none;">(2) YEAR COMPLETED</th> </tr> <tr> <td style="width: 50%; border: none; text-align: center;">PROFESSIONAL SERVICES 2012</td> <td style="width: 50%; border: none; text-align: center;">CONSTRUCTION (If applicable)</td> </tr> </table>			(2) YEAR COMPLETED		PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable)
	(2) YEAR COMPLETED								
PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable)								
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Principal-in-charge for investigating the feasibility and environmental impacts of extending the existing outfall to obtain a National Pollutant Discharge Elimination System (NPDES) permit for future wastewater disposal from the treatment plant for the City and County of Honolulu. Installed two water column monitoring data buoys at the two depths and analyzed data for one year to evaluate the impacts on the water column. Conducted dye studies to model far field dispersion and plume fate. Developed conceptual outfall extension designs. Near real-time data and results were posted to an extranet website. The approximate project cost was \$680,000.									
b.	(1) TITLE AND LOCATION (City and State) 'Aliomanu Road Coastal Erosion Control Anahola, Hawai'i		<table style="width: 100%; border: none;"> <tr> <th colspan="2" style="border: none;">(2) YEAR COMPLETED</th> </tr> <tr> <td style="width: 50%; border: none; text-align: center;">PROFESSIONAL SERVICES 2013</td> <td style="width: 50%; border: none; text-align: center;">CONSTRUCTION (If applicable)</td> </tr> </table>			(2) YEAR COMPLETED		PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable)
	(2) YEAR COMPLETED								
PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable)								
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Principal-in-charge for the design of an emergency erosion control and protection solution for 'Aliomanu Road using coconut fiber sandbags for the County of Kaua'i. Conducted topographic and beach surveys, designed a permanent shore protection solution, and prepared an environmental assessment and plans, specifications, and cost estimates (PS&Es). Submitted applications for all required federal, state, and county permits for approval. The design included a revetment and the rebuilding of the road and shoulder. The approximate project cost was \$197,000.									
c.	(1) TITLE AND LOCATION (City and State) Ala Wai Canal Watershed Flood Mitigation and Ecosystem Restoration Project, O'ahu, Hawai'i		<table style="width: 100%; border: none;"> <tr> <th colspan="2" style="border: none;">(2) YEAR COMPLETED</th> </tr> <tr> <td style="width: 50%; border: none; text-align: center;">PROFESSIONAL SERVICES 2013</td> <td style="width: 50%; border: none; text-align: center;">CONSTRUCTION (If applicable)</td> </tr> </table>			(2) YEAR COMPLETED		PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable)
	(2) YEAR COMPLETED								
PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable)								
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Principal-in-charge for the development of designs for flood alleviation in Waikiki and restoration of ecosystems in the upper watershed that includes Pālolo, Mānoa, and Makiki streams. Oceanit helped develop the project scope conceptual designs to mitigate intensity of flooding in Waikiki and restoring the functionality of the streams that provide habitat and migration path for endemic fish. Numerous informational meetings with State and County agencies, stakeholders, environmental groups, and the general public were held to discuss the stream problems, their impacts, and proposed restoration measures. Oceanit completed a hydrographic survey for Ala Wai Canal and part of the Ala Wai Boat Harbor. A hydrologic and hydraulic analysis was also completed for the watershed.									
d.	(1) TITLE AND LOCATION (City and State) Water Infiltration in the Basement of the International Arrivals Building Daniel K. Inouye International Airport (HNL), O'ahu, Hawai'i		<table style="width: 100%; border: none;"> <tr> <th colspan="2" style="border: none;">(2) YEAR COMPLETED</th> </tr> <tr> <td style="width: 50%; border: none; text-align: center;">PROFESSIONAL SERVICES Phase 1: July 2019</td> <td style="width: 50%; border: none; text-align: center;">CONSTRUCTION (If applicable)</td> </tr> </table>			(2) YEAR COMPLETED		PROFESSIONAL SERVICES Phase 1: July 2019	CONSTRUCTION (If applicable)
	(2) YEAR COMPLETED								
PROFESSIONAL SERVICES Phase 1: July 2019	CONSTRUCTION (If applicable)								
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Principal-In-Charge for investigation and preliminary design of a complete solution to stop water infiltration in the basement of the International Arrivals Building (IAB) at HNL. The basement has been afflicted by continuous water infiltration (average 40 gallons per minute) and flooding events for the past two decades; a chronic problem that renders some areas unusable and impedes access to mechanical equipment and storage. After reviewing as-built plans, the Oceanit team investigated water infiltration sources into the basement, tested chemical composition of the infiltrating water and developed conceptual designs to prevent the infiltration and provided a report of the findings and recommendations. Phase 1 cost: \$550,000.									

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)



12. NAME Sterling Yee		13. ROLE IN THIS CONTRACT Director of Strategic Consulting, Auditing Specialist		14. YEARS EXPERIENCE	
				a. TOTAL 38	b. WITH CURRENT FIRM 10
15. FIRM NAME AND LOCATION (City and State) Oceanit Laboratories, Inc, Honolulu, Hawai'i					
16. EDUCATION (Degree and Specialization) BS, Business Administration and Marketing MBA, Business Administration			17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Certificates: Leadership Development Certificate, University of Maryland, Center for Creative Leadership. Organizations: Treasurer, American Lung Association of the Mountain Pacific, Seattle, WA. Instructor for 4 IT auditing classes for the MIS Training Institute in Boston, Chicago, New York, and London.					
19. RELEVANT PROJECTS					
	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager. Oceanit was asked by the City and County of Honolulu to get involved in this project after the release of an FEIS by the USACE resulted in widespread community opposition. The USACE plan was intended to prevent large-scale flood damage. Mr. Yee participated in community outreach meetings, helped develop alternate plans that were more community-friendly and did not require condemning private lands, flooding school grounds and provided equal or increased flood protection than those presented in the USACE plan. He also helped evaluate other community derived ideas such as flood gates and locks and pumps in the Ala Wai, underground detention basins, retractable canal walls, dryland and wetland plots to dissipate and hold flood waters and dredging of the Ala Wai to improve water flow.		☐ Check if project performed with current firm		
b.	(1) TITLE AND LOCATION (City and State) Program Management Consulting Services Honolulu, Hawai'i		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable)	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Program manager for the organizational change management (OCM) efforts for the State of Hawai'i Office of Information Management and Technology Program Management (OIMT) for business transformation initiatives. The plan uses a user-centered approach to garner user buy-in and adoption. Main focus areas included leadership, communication, learning and knowledge transfer, organizational structure and job redesign, and resistance management. The approximate project cost was \$3.1 million.		☒ Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (City and State) Information Technology Audits Statewide, Hawai'i		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2010	CONSTRUCTION (If applicable)	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Assistant auditor for the Office of the Auditor office information technology (IT) audits. Managed operational audits, including an audit of all IT functions of the State of Hawai'i and Office of Hawaiian Affairs, investigation of the Bureau of Conveyances, and audit of the Molokai Irrigation Ditch connecting water from the east end of the island to the west end.		☐ Check if project performed with current firm		
d.	(1) TITLE AND LOCATION (City and State) Hawai'i Broadband Initiative Statewide, Hawai'i		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable)	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Worked on this initiative with the primary goal of providing broadband connectivity to every public school in Hawai'i. Assisted with administering council meetings, evaluating technical specifications, reviewing financial plans and projections, and preparing necessary legislation to enable the initiative to move the project forward.		☐ Check if project performed with current firm		
e.	(1) TITLE AND LOCATION (City and State) La Pietra Hawai'i School for Girls Honolulu, Hawai'i		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable)	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Chief operating officer responsible for the school's IT, accounting, finance, and facilities maintenance. Completed the design and implementation of a robust network, ensuring every area on campus had full access to the network and Internet.		☐ Check if project performed with current firm		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)



12. NAME Stephen B. Wilson		13. ROLE IN THIS CONTRACT Sr. Project Manager		14. YEARS EXPERIENCE	
				a. TOTAL 51	b. WITH CURRENT FIRM 5
15. FIRM NAME AND LOCATION (City and State) Oceanit Laboratories, Inc, Honolulu, Hawai'i					
16. EDUCATION (Degree and Specialization) B.S. / 1973 / Mechanical Engineering MBA / 1980 / MBA			17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Navy SCUBA Qualified; Drydock Master, Software Engineering Institute/Carnegie Mellon Capability Maturity Model, Hammer & Champy's Business Process Reengineering (BPR), Total Quality Management (TQM), International Organization for Standardization ISO 9001 auditor, Legislative Auditor for State of Hawaii (management & performance audits).					
19. RELEVANT PROJECTS					
	(1) TITLE AND LOCATION (City and State) General Manager and Construction Engineer, Kailua-Kona and Honolulu, Hawai'i		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2004-2006	CONSTRUCTION (If applicable) 2004-2006	
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Construction & Operations Management - Construction of modular homes using light gauge steel frames and trusses that were manufactured from coils of light gauge steel in a plant environment. Manufactured entire home in two pieces that were trucked to job site and assembled and closed up. Homes were secured to foundations and utilities connected.				
	(1) TITLE AND LOCATION (City and State) General Manager/Aloha Aina Homes, LLC Kailua-Kona and Honolulu Hawaii		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2004-2005	CONSTRUCTION (If applicable)	
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Helped to establish new business to manufacture modular homes using light gauge steel frames and trusses in a new plant environment. Left company to start up similar operation in Honolulu. Worked with consultants to plan, develop and implement operating plan. Served as onsite engineer. Defined and implemented Manufacturing Process Management Systems. Documented and implemented standard operating procedures (Safety Manual/Program, Steel Stud Quality Control Manual & Plant Quality Control Manual) and quality standards				
	(1) TITLE AND LOCATION (City and State) Kahana Nui Basin Dam, Department of Public Works Kahana, Hawaii		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2020-present	CONSTRUCTION (If applicable)	
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Project Manager – Oversaw Hydrological and Hydraulic analysis, Spillway Adequacy Analysis, updated design for outflow intake and dam controls, prepared design report, prepared and submitted application for approval of Plans and Specifications to the Hawaii Dam Safety Program.				
	(1) TITLE AND LOCATION (City and State) Ala Wai Watershed Flood Mitigation Project, Honolulu, Hawaii		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable)	
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Project Manager – Oversaw hydrologic and hydraulic computer modeling of watershed, developed conceptual designs for flood mitigation solutions, conducted engineering review of USACE flood mitigation plans, performed community engagement and outreach meetings, coordinated activities with stakeholders, agencies, and community.				
	(1) TITLE AND LOCATION (City and State) North Kawaihae Small Boat Harbor Improvements Kawaihae, Hawaii		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2022 (est.)	CONSTRUCTION (If applicable)	
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Project Manager - Provided damage assessment reports, construction plans, specifications and cost estimates for the main breakwater, rock revetment, parking lot, boat washdown and drainage improvements, utility upgrades, a drainage evaluation, wave modelling and report, an Environmental Assessment, and all required permits. The main breakwater that is supposed to protect the harbor, has undergone major repairs in the past due to wave damage. The most recent wave damage occurred in January 2020, rendering the marginal wooden wharf and much of the harbor utilities unusable. The proposed improvements will strengthen the compromised breakwater, construct a sand berm along the shoreline to prevent sand from accumulating on the boat ramp and replace or repair damaged infrastructure. Estimated Construction Cost: Main Breakwater - \$4.62 M, Infrastructure Improvements: \$1.16 M				

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)



12. NAME Steve Enomoto	13. ROLE IN THIS CONTRACT Sr. Construction Inspector	14. YEARS EXPERIENCE	
		a. TOTAL 40	b. WITH CURRENT FIRM 1
15. FIRM NAME AND LOCATION (City and State) Oceanit Laboratories, Inc, Honolulu, Hawai'i			
16. EDUCATION (Degree and Specialization) A.S. Carpentry, Honolulu Community College, 1981		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) General Building License, Hawaii, License BC-22763 - 2000-2006	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	HNL Biometric Facial Recognition System, Daniel K. Inouye International Airport	PROFESSIONAL SERVICES 2023 to present	CONSTRUCTION (If applicable)
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Senior Construction Inspector: Project involved the construction management and inspection of biometric facial recognition system intended for implementation at all international departure gates. Construction work entailed the development of a telecommunication network extending between the international departure gates to the DOT-A, U.S. Customs and Boarder (CBP), and various airline companies' computer servers.		
	HNL AOA Fence Replacement, Daniel K. Inouye International Airport	PROFESSIONAL SERVICES 2023 to present	CONSTRUCTION (If applicable)
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Senior Construction Inspector, Airfield Radio Monitor: Project involved the architectural and general engineering consulting services for the design of the fence line replacement at Daniel K. Inouye International Airport. Prepare complete design, plans, specifications, drawings, cost estimates, schedules, studies, reports and other items. Perform airfield survey of existing fence line approximately 146,500 linear feet of the Airport Operations Area (AOA).		
	Runway 8L Widening and Miscellaneous Improvements, Phase 2, HNL Airport, Oahu, HI	PROFESSIONAL SERVICES 2022-2023	CONSTRUCTION (If applicable)
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm CH2M Senior Lead Quality Assurance Inspector: Project involved rehabilitating/reconstructing approximately 8,500 lineal feet of Runway 8L-26R pavement, widening the runway from 150 feet to 200 feet, and modifying the existing edge lights and NAVAIDs.		
	Lanai Airport Reconstruct Runway 3-21	PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable)
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Quality Assurance Inspector: Project involved Cold milling and repaving RWY 3-21, addition of 25' shoulders on each side of runway and taxiway, construction of grouted riprap drainage swales, and rehabilitation of TWY A and the apron, including grooving the runway pavement and painting airfield markings in accordance to project specifications.		
	NDWP Widen Taxilanes G & L – Phase 1, HNL Airport, Oahu, HI	PROFESSIONAL SERVICES 2011-2013	CONSTRUCTION (If applicable)
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Quality Assurance Inspector on \$42 million project for the reconstruction of Taxilanes G&L and Taxiway A. Work included utility relocation and upgrades; construction of a bridge structure over the Manuwai Canal; box culvert reconstruction; reconstruction of airfield lighting and signage; and fuel line system upgrades. Construction inspection included material sampling and testing; verification of the contractor's monthly pay estimates; random sampling calculation and marking for gradation; density and thickness testing; and calculation for random sampling for core location.		
	Runway 8L Pavement Improvements, HNL Airport, Oahu, HI	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
f.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Senior Lead Quality Assurance Inspector: Project involved rehabilitating/reconstructing approximately 8,500 lineal feet of Runway 8L-26R pavement, widening the runway from 150 feet to 200 feet, and modifying the existing edge lights and NAVAIDs.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT*(Complete one Section E for each key person.)*

12. NAME Om Das, P.E., PMP		13. ROLE IN THIS CONTRACT Construction Project Manager		14. YEARS EXPERIENCE	
				a. TOTAL 13	b. WITH CURRENT FIRM 3
15. FIRM NAME AND LOCATION (City and State) Oceanit Laboratories, Inc, Honolulu, Hawai'i					
16. EDUCATION (Degree and Specialization) B.Tech, Chemical Engineering / 2008 M.S., Civil Engineering / 2011			17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Hawaii, Civil Engineering		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Project Management Professional (PMP), OSHA 30-Hour Construction Industry Outreach, OSHA 10-Hour Construction Industry Outreach, LEED Green Associate,					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) Water Systems Upgrade at the Waikiki Aquarium for the University of Hawaii, Manoa		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES Current	CONSTRUCTION (If applicable)	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Civil Engineer responsible for project management and project design, planning & permitting. Scope of project includes design of injection well system for the discharge of water effluent from the aquarium's exhibits.				
b.	(1) TITLE AND LOCATION (City and State) HNL NDWP IIT Mauka Extension, Daniel K. Inouye Intl Airport Honolulu, Hawaii		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) 2021	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Construction Project Manager responsible for the coordination of project work with the project stakeholders, coordination of design changes with the Owner, Designer & Contractor, inspecting Contractor's work in accordance with the Project Documents and negotiating change orders with the Contractor. Scope of the project included the demolition of the old Commuter Terminal and the construction of the new Inter-Island Terminal Mauka Extension at HNL. Approximate Construction Cost was \$270 Mil.				
c.	(1) TITLE AND LOCATION (City and State) HNL HDWP Widen Taxilanes G&L Phase I, Daniel K. Inouye Intl Airport Honolulu, Hawaii		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) 2018	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Construction Project Manager responsible for the coordination of project work with the project stakeholders, coordination of design changes with the Owner, Designer & Contractor, inspecting Contractor's work in accordance with the Project Documents and negotiating change orders with the Contractor. Scope of the project included the widening & full pavement reconstruction of Taxilanes G & L to accommodate ADG-V type aircrafts. Approximate Construction Cost was \$60 Mil.				
d.	(1) TITLE AND LOCATION (City and State) Waiahole Water System Improvements for the State of Hawaii, Department of Agriculture Honolulu, Hawaii		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable)	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Civil Engineer responsible for project design and permitting. Scope of project included the replacement of four irrigation siphons along the Waiahole Water System Improvements that convey irrigation water from one part of the Island of Oahu to another for agricultural use.				
e.	(1) TITLE AND LOCATION (City and State) Lima Ola Work Force Housing Development for Kauai County Housing Agency Kauai, Hawaii		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable)	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Civil Engineer responsible for the development of an environmental assessment report, preliminary engineering report and a water model for the project.				
f.	(1) TITLE AND LOCATION (City and State) Force Main Condition Assessment for the Department of Design & Construction, City & County of Honolulu Honolulu, Hawaii		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable)	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Civil Engineer responsible for developing a work plan for the condition assessment of three wastewater force mains at Kaneohe, Kailua and Halawa and documenting the findings of the condition assessment in an engineering report.				

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT*(Complete one Section E for each key person.)*

12. NAME Jason Y. Lee, P.E.		13. ROLE IN THIS CONTRACT Senior Civil Engineer		14. YEARS EXPERIENCE	
				a. TOTAL 27	b. WITH CURRENT FIRM 3
15. FIRM NAME AND LOCATION (City and State) Oceanit Laboratories, Inc, Honolulu, Hawai'i					
16. EDUCATION (Degree and Specialization) BS Civil Engineering / 1996			17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Hawaii, Civil Engineering, No. 13669 Nevada, Civil Engineering, No.15275		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Computer Skills: AutoCAD, ArcGIS, HEC-1, HEC-2, HEC-RAS, Flo-2D, WSPGW, FlowMaster, CulvertMaster					

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	Waikiki Aquarium Effluent Discharge System Upgrade Honolulu, Hawaii	2023	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Senior Civil Engineer. Evaluated and designed upgrades for the aquatic life exhibit effluent disposal system to meet the NPDES regulatory requirements. Served the role of Project Manager and Technical Lead of the Design Team for the preparation of construction plans, specifications, and cost estimates.		
b.	Saddle Road – West Side Mamalahoa Hwy (SR 190) to MP 41 (Daniel k. Inouye Hwy) Island of Hawai'i, Hawai'i	2010	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Senior Engineer. This project was a 10-mile new alignment bypass of the old Saddle Rd. on the Big Island of Hawai'i. The project was performed for the Federal Hwy Administration, the Central Federal Lands Hwy Division, and HDOT-Hwy Division. Responsibilities: Performed hydrologic and hydraulic analyses and recommended drainage improvements to be included in the Preliminary Design Plans.		
c.	Honolulu Rail Transit (East Kapolei to Aloha Stadium) Honolulu, Hawaii	2010	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Senior Engineer. Performed hydraulic and scour analysis of the rail columns at the channel/stream crossings near the junction of H2 and Farrington Hwy and near the intersection of Kualakai Pkwy and Hoomohala Ave.		
d.	Lone Mountain/Beltway Detention Basins and Gowan Beltway Chnl Clark County, Nevada	2008	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Senior Engineer. This project consisted of 600 acre-feet dual detention basins connected by a balance conduit with a dual level of outfall flow control & a number of inflow storm drains and channels, including a 2-mile inflow channel that conveys up to 3800 cfs. Responsibilities: Performed hydrologic analyses for a drainage area over 10 sq. mi.; coordinated with another engineering firm in reconciling the hydrology of the project with that of the Las Vegas Valley 2008 Master Plan Update; performed hydraulic analyses and design of the drainage facilities that included dual detention basins, emergency spillways, balance conduit, dual level outfall orifices, stepped spillway channels, inflow storm drains and channels with energy dissipaters; prepared design report; QA/QC of plans and specifications		
e.	Gowan Outfall Lone Mountain Branch – Rancho to Decatur Las Vegas, Nevada	2008	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Senior Engineer. This project was a 2.2-mile storm drain system that consisted of RCBs ranging from 6-ft X 6-ft to 14-ft X 7-ft and conveyed up to 1600 cfs. Responsibilities: Performed hydraulic analyses and design of the 2.2-mile RCB storm drain system that includes the mainline, laterals, and drop inlets; reviewed drawings and plans for quality control and quality assurance; prepared 30%, 70%, 90%, and final hydraulic design reports; identified and resolved utility conflicts; coordinated with City of Las Vegas, Clark County Regional Flood Control, and Nevada Department of Transportation		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT*(Complete one Section E for each key person.)*

12. NAME Jordan Moniuszko, PE CCM		13. ROLE IN THIS CONTRACT Environmental/Civil Engineer, Construction Manager		14. YEARS EXPERIENCE	
				a. TOTAL 15	b. WITH CURRENT FIRM 10
15. FIRM NAME AND LOCATION (City and State) Oceanit Laboratories, Inc, Honolulu, Hawai'i					
16. EDUCATION (Degree and Specialization) B.S. / 2009 / Mechanical Engineering B.S. / 2009 / Environmental Science			17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Hawaii / Civil Engineering / 2018		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) 2009 / SCUBA Open Water; 2009 / Environmental Compliance Training and Tracking System; 2010 / OSHA 30 Hour Construction Safety & Health; 2010 / National Pollutant Discharge Elimination System Awareness; 2013 / CPR & First Aid; 2013 / OSHA 24 Hour Confined Space Competent Person; 2014 / Hawaii DOBOR Safe Boating; 2021 / OSHA 2 Hour Asbestos Awareness					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) Waikiki Aquarium Effluent Disposal System Upgrade Honolulu, Hawai'i		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) 2024 (Est.)	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Project Manager for this project to evaluate, permit, and design upgrades to the aquatic life exhibit effluent disposal system in order to meet updated NPDES regulatory requirements. The team consisted of civil, electrical, and mechanical engineers, biologist, hydrogeologist, and aquatic life support system specialist.				
b.	(1) TITLE AND LOCATION (City and State) Anahola Farm Lots Subdivision Water System Improvements Anahola, Hawai'i		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) 2022 (Est.)	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Project Engineer for this project to replace a rural subdivision 0.5 MG water tank, water transmission lines and appurtenances, and install a system interconnection with County water system. The team consisted of civil, structural, mechanical, and electrical engineers.				
c.	(1) TITLE AND LOCATION (City and State) IAB Basement Water Infiltration Repairs at Daniel K Inouye Intl Airport Honolulu, Hawai'i		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) 2023 (Est.)	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Project Engineer for this project to investigate sources of and design repairs for flooding to the basement of the overseas terminal at Honolulu International Airport. A variety of techniques were used to scan concrete and gather data to confirm sources of water infiltration. Final design includes repairs to floor slab, exterior and interior drainage improvements, and new floor slab installation.				
d.	(1) TITLE AND LOCATION (City and State) Salt Lake Watershed Structural BMP Implementation Salt Lake, Hawai'i		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) 2022	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Project Engineer for this project to install remote sensors and stormwater samplers, collect water quality and meteorologic data, develop and calibrate a watershed model, model various BMP scenarios, design various structural stormwater Best Management Practice measures, and provide construction management services at Salt Lake Watershed in urban Honolulu.				
e.	(1) TITLE AND LOCATION (City and State) Ka'elepulu Pond & Wetland Environmental Maintenance Dredging Kailua, Hawai'i		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) 2022 (Est.)	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Design Engineer and Construction Manager for an ecosystem restoration project to reconnect two estuarine bodies of water located in Windward Oahu. Federal, State and local permits and implementation of associated regulatory conditions were required prior to construction.				
f.	(1) TITLE AND LOCATION (City and State) Kahalu'u Flood Control Lagoon Maintenance Dredging Kaneohe, Hawai'i for Department of Design and Construction		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable)	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Project Engineer for this windward Oahu maintenance dredging and upland disposal project currently in progress for the City and County of Honolulu. Wrote and executed Sediment Sampling and Analysis Plan. Performed upland disposal scenario and cost estimate analysis. To perform design and services during bidding.				

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)



12. NAME Michael J. Foley, Ph.D., PE	13. ROLE IN THIS CONTRACT Senior Civil and Coastal Engineer	14. YEARS EXPERIENCE <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; border-bottom: 1px solid black; text-align: center;">a. TOTAL</td> <td style="width: 50%; border-bottom: 1px solid black; text-align: center;">b. WITH CURRENT FIRM</td> </tr> <tr> <td style="text-align: center;">18</td> <td style="text-align: center;">18</td> </tr> </table>		a. TOTAL	b. WITH CURRENT FIRM	18	18
a. TOTAL	b. WITH CURRENT FIRM						
18	18						
15. FIRM NAME AND LOCATION (City and State) Oceanit Laboratories, Inc, Honolulu, Hawai'i							
16. EDUCATION (Degree and Specialization) Ph.D. Civil Engineering, 2015 M.S. Civil and Environmental Engineering, 2011 B.A. Environmental Science: Concentration in Physics, 2006		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer, Civil Engineering Class, State of Hawai'i (PE-17342)					
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Dr. Foley is a Civil, Ocean and Environmental Engineer with years of experience in engineering analysis and design services as well as environmental assessment and monitoring projects. His specialties include hydraulic and hydrologic analysis and design, coastal engineering and environmental planning and permitting.							

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Pahonu Beach and Shoreline Restoration Waimanalo, Hawai'i	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable)
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Project Manager. In the first phase, temporary shoreline erosion controls were designed and installed to address imminent risks of coastal hazards along multiple properties. Next, an engineering assessment was completed to explore long-term options. In the later phase, coastal data was collected and a numerical model of the beach dynamics was developed. A plan for beach nourishment and stabilization was proposed. Design fee: \$300,000		
	Kahana Regional Beach Erosion Mitigation Lahaina, Hawai'i	PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable)
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Principle Investigator. Approximately ¾ mile of shoreline developed with nine condominium complexes is exposed to severe shoreline hazards due to beach and shoreline erosion. Dr. Foley lead the design of a shoreline restoration project, assessment of multiple design alternatives, preparation of an environmental impact statement, and community outreach.		
	Kauai Kailani, Kapa'a, Hawai'i	PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) 2023
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Principle Investigator. A temporary shoreline structure was designed to help mitigate an imminent erosion hazard risk. As a long term solution, a plan to nourish the beach and construct a stabilization structure was developed. A dredging plan was also drafted to recover beach quality sand from a nearby drainage system. After receiving all the necessary environmental clearances and land disposition, the project was constructed. Beach monitoring was installed using cameras and software to track the project success.		
	Portlock Road Drainage Outfall Improvements Honolulu, Hawai'i	PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) 2021
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Project Engineer. An existing nearshore breakwater protecting the outlet of an existing at municipal stormwater drainage outfall was damaged. Dr. Foley design a replacement coastal structure to mitigate wave energy, sediment transport and drainage issues at the shoreline. The project involved evaluation of coastal dynamics, innovative structure design, environmental permits, land use entitlements, construction plans, specifications, cost estimate, and post design services.		
	Keōpū-Hienaloli Streams Flood Control Project Kona, Hawai'i	PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable)
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Project Engineer. Conducted a hydrological analysis of the watershed area including eight flood levels (2-year, 5-year, 10-year, 25-year, 50-year, 100-year, 200-year and 500-year storms). Identified and assessed existing flood control and drainage facilities within the project area. Developed a hydraulic design analysis for a proposed flood reduction plan.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)



12. NAME Linyan Li Goo, PhD, PE		13. ROLE IN THIS CONTRACT Hydraulic Engineer/Coastal Engineer		14. YEARS EXPERIENCE <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">a. TOTAL</td> <td style="width: 50%; border: none;">b. WITH CURRENT FIRM</td> </tr> <tr> <td style="text-align: center; border: none;">5</td> <td style="text-align: center; border: none;">5</td> </tr> </table>		a. TOTAL	b. WITH CURRENT FIRM	5	5
a. TOTAL	b. WITH CURRENT FIRM								
5	5								
15. FIRM NAME AND LOCATION (City and State) Oceanit Laboratories, Inc, Honolulu, Hawaii'i									
16. EDUCATION (Degree and Specialization) BS Environmental Engineering 2008 MS in Environmental Science and Engineering (2011) PhD in Ocean and Resources Engineering (2018)			17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) State of Hawaii Professional Engineer License No. 20193						
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Yamazaki Y., Bai Y., Goo L.L., Cheung, K.F., Lay, T. (2023). Nonhydrostatic Modeling of Tsunamis from Earthquake Rupture to Coastal Impact. Journal of Hydraulic Engineering. [accepted in March 2023] *Li, L., Cheung, K.F. (2018). Numerical dispersion in non-hydrostatic modeling of long-wave propagation. Ocean Modeling. doi: 10.1016/j.ocemod.2019.05.002. *Li, L., Cheung, K.F., Yue, H., Lay, T., and Bai, Y. (2016). Effects of dispersion in tsunami Green's functions and implication for joint inversion with seismic and geodetic data: a case study of the 2010 Mentawai Mw 7.8 earthquake. Geophysical Research Letters, 43(21), 11182-11191. *Li, L., Lay, T., Cheung, K.F., and Ye, L. (2016). Joint modeling of teleseismic and tsunami wave observations to constrain the 16 September 2015 Illapel, Chile Mw 8.3 earthquake rupture process. Geophysical Research Letters, 43(9), 4303-4312. * Work published under maiden name Li									
19. RELEVANT PROJECTS									
a.	(1) TITLE AND LOCATION (City and State) Anahola Farm Lots Water System Project, Kauai, Hawaii		(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION (If applicable)</td> </tr> <tr> <td style="text-align: center; border: none;">2022</td> <td style="text-align: center; border: none;"></td> </tr> </table>			PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2022	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)							
2022									
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Engineer. Provided construction support including submittal and RFI review and coordinated with construction manager to ensure the construction follow the intended design. Prepared Assets Inventory and Management Plan for the new entire water system. Complied O&M manual for the new water system.		☒ Check if project performed with current firm							
b.	(1) TITLE AND LOCATION (City and State) Kahana Nui Basin Dam Improvements, Maui, Hawaii		(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION (If applicable)</td> </tr> <tr> <td style="text-align: center; border: none;">ongoing</td> <td style="text-align: center; border: none;"></td> </tr> </table>			PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	ongoing	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)							
ongoing									
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Engineer. Performed Hydrologic and Hydraulic modeling for the Kahana Nui watershed and reservoir using USACE's HEC-HMS and HEC-RAS (2D) model systems; Evaluated downstream flooding effects under various dam improvement alternatives; Prepared Hydrologic and Hydraulic Analysis Report and Downstream Flooding Effects Report.		☒ Check if project performed with current firm							
c.	(1) TITLE AND LOCATION (City and State) Ala Wai Watershed Flood Mitigation, Honolulu, Hawaii		(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION (If applicable)</td> </tr> <tr> <td style="text-align: center; border: none;">2021</td> <td style="text-align: center; border: none;"></td> </tr> </table>			PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2021	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)							
2021									
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Engineer. Performed hydrologic and hydraulic modeling using HEC-HMS and HEC-RAS for various frequencies of flood events to assess hazards for the Ala Wai Watershed; Evaluated conceptual designs involving a set of tunnels, combined with ideas suggested by the community. Modeling results provided critical information for the design phase.		☒ Check if project performed with current firm							
d.	(1) TITLE AND LOCATION (City and State) Kalakaua Floating Bridge Flow Condition Analysis, Honolulu, Hawaii		(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION (If applicable)</td> </tr> <tr> <td style="text-align: center; border: none;">2021</td> <td style="text-align: center; border: none;"></td> </tr> </table>			PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2021	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)							
2021									
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Engineer. Conducted hydraulic analysis to evaluate flood impacts of constructing a bridge, crossing Kalakaua bridge, along the Ala Wai Canal. Prepared a report to document the findings and potential impacts on general flood condition in the adjacent areas due to the proposed project.		☒ Check if project performed with current firm							
e.	(1) TITLE AND LOCATION (City and State) Kahana Bay Erosion Mitigation, Kahana, Maui, Hawaii		(2) YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION (If applicable)</td> </tr> <tr> <td style="text-align: center; border: none;">2019</td> <td style="text-align: center; border: none;"></td> </tr> </table>			PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2019	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)							
2019									
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Coastal Engineer. Performed wave climate data analysis to define typical swell events for coastal erosion. Developed DEM (digital elevation model) by incorporating multiple data resources including Lidar, Multibeam, and Nautical charts etc. Performed wave modeling using SWAN (Simulating Waves Near Shore) to evaluate wave impacts and worked on beach stabilization structure design.		☒ Check if project performed with current firm							

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT*(Complete one Section E for each key person.)*

12. NAME Vicki Spradlin	13. ROLE IN THIS CONTRACT Construction Inspector/Drafting Technician	14. YEARS EXPERIENCE <table border="1"> <tr> <td>a. TOTAL 17</td> <td>b. WITH CURRENT FIRM 4</td> </tr> </table>		a. TOTAL 17	b. WITH CURRENT FIRM 4
a. TOTAL 17	b. WITH CURRENT FIRM 4				
15. FIRM NAME AND LOCATION (City and State) Oceanit Laboratories, Inc, Honolulu, Hawai'i					
16. EDUCATION (Degree and Specialization) Bachelor of Science, 1994 Mechanical Engineering Technology, ABET-accredited Industrial Supervision Minor		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) 30 HOUR OSHA CERTIFICATION					

19. RELEVANT PROJECTS

	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a. (1) TITLE AND LOCATION (City and State) Construction Management Services for Mangrove Removal and Eradication at Keehi Lagoon, Daniel K. Inouye International Airport Honolulu, HI (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Project Engineer. In response to FAA wildlife regulations on bird habitats, the project removes large mangrove patches on islands located in the DOT Airport's Ke'ehi Lagoon. Position works closely with DOT Airport personnel and construction contractor to provide comprehensive support services and overall construction management. Daily transport by boat to jobsite for inspections and work observation. Provide detailed written reports and digital photographs to document progress. Conduct meetings. Confirm safety and work quality assurances. Coordination of homeless outreach with DOT personnel. Manage submittals, proposals, change orders, invoices, etc.	PROFESSIONAL SERVICES 2020-2021	CONSTRUCTION (If applicable) 2021
b. (1) TITLE AND LOCATION (City and State) Construction Management Services for Phase 1 of the OST ACM & Air Conditioning Modifications at the Daniel K. Inouye International Airport - Honolulu, HI (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Project Engineer. Overall construction management services and on-site DOTA representative for pre-construction, construction, and post-construction phases. Initial project constructability review. Initial planning and coordination. Work with construction contractor, subconsultants and SMEs. Perform daily inspection, work observation, and reporting. Conduct meetings with owner. Confirm safety and quality assurances. Manage project budget and billings. Manage submittal responses, RFIs, field orders, change orders, work outages, issues, and disputes.	PROFESSIONAL SERVICES ongoing	CONSTRUCTION (If applicable)
c. (1) TITLE AND LOCATION (City and State) Free Electron Laser (FEL) Facility Development The University of Hawai'i Physics and Astronomy Dept., Honolulu, HI (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Consultant/Designer. Facility development under a \$50 million federal grant for defense-related research. Produced multitudes of complex machine designs and drawings (2D & solid models). Special project contributions included laser transport system design, radiation protection system planning, and cleanroom design-build. Vetting and selecting specialty vendors across the U.S. to fabricate over 300 machined and micro-machined components. Wrote technical summaries, coordinated high dollar purchases, established a procurement process to adhere to federal grant guidelines. Quality checks on received system components. Presentations to key stakeholders.	PROFESSIONAL SERVICES 2004-2008	CONSTRUCTION (If applicable)
d. (1) TITLE AND LOCATION (City and State) Lucent Technologies Telcom Infrastructure Installations, Nationwide Lucent Technologies is now Nokia. Client was AT&T. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Network Systems Engineer/Project Manager - Managed the life cycle of projects with durations varying from three months to two years, with value up to \$4 million. Project scopes included engineering, materials, and installations for local exchange services, 5E switches, and leased space arrangements. Discipline areas included building network infrastructure, network equipment, power supplies/cabling and transmission cabling. Also worked with sales, engineering, and installation teams to develop winning proposals, budgets, and schedules.	PROFESSIONAL SERVICES 1996-2002	CONSTRUCTION (If applicable)

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT*(Complete one Section E for each key person.)*

12. NAME Chrystal Madigan	13. ROLE IN THIS CONTRACT Assistant Engineer/Scientist	14. YEARS EXPERIENCE	
		a. TOTAL 0	b. WITH CURRENT FIRM < 1
15. FIRM NAME AND LOCATION (City and State) Oceanit Laboratories, Inc, Honolulu, Hawai'i			
16. EDUCATION (Degree and Specialization) BS / Mathematics / California State University / 2009 Assoc. Sci / Biology / Riverside Community College, CA / 2005 Assoc. Art / Studio Art (Ceramics) / Riverside Community College / 2005		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) ASHRAE Full Member (Currently) ASHRAE Southern California Chapter			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	ARFF Truck Shelter: Kahului, HI	2024	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Description: Installation of two truck shelters capable of housing two standby ARFF trucks each. Role: Project Management - Coordinate with PE for scope of design. Design truck shelter location and sizing. Create drawings to be included in submittals to client. Coordinate with manufacturer for product information and requirements. Amend specs and submittals as needed. Attend PreBid meeting, coordinating with clients and prospective contractors. Submit meeting notes and addendums as required. Assist in bid tabulation. Ongoing project.		
b.	Circa LA: Los Angeles, CA	2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Description: Mixed use, four-story Type V podium apartment building consisting of 224 total residences over approximately 37,000 square feet retail/live work, ancillary uses, approximately 50 retail parking stalls on the ground floor with 38 additional stalls in a mezzanine parking deck, over 2 levels of subterranean parking structure for residential and retail parking. Leasing center, recreation, and fitness facilities consisting of approximately 6,000 square feet. Role: Lead HVAC Mechanical designer: condenser water system design, pipe riser layout and sizing, garage ventilation, and residential design and layout, utilizing energy analysis software (EnergyPro) for Load calculations.		
c.	Proper Hotel: Santa Monica, CA	2012	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Description: Renovations and adaptive reuse of an existing historic office building converted to a hotel along with a new 7 story hotel building all consisting of a total of 285 rooms of which 55 will be in the historic building with underground and surface parking along with retail at the ground floor of each and including two restaurants. Project designed as a "turnkey" project. Assistant HVAC mechanical designer: Assisted lead designer in historic adaptive reuse design of luxury hotel rooms and amenities spaces converted from office building with new construction wings. Lead M coordinator with EP and architectural team once lead retired. Designed central plant and chilled water piping loop based on data derived from load calculations. Coordinated with City of Santa Monica for permitting of project's mechanical plans.		
d.	Atelier: Los Angeles, CA	2015	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Description: Design-Build 34-story tower consisting of 363 residential units and 10,000 square feet of ground-floor retail. Single Tower over podium project. Role: Subcontracted to Design by Contractor. Worked closely with contractor to implement his design into a mechanical plan set. Specialized elements utilized were in-slab ducting, and exhaust through shafts penetrating tower levels, to discharge through roof. Central plant with fan coil units sizes derived from load calculations. Central plant and chilled water piping sized and parking garage ventilation designed under guidance of PE.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT*(Complete one Section E for each key person.)*

12. NAME Catherine Hanna, EIT	13. ROLE IN THIS CONTRACT Civil Engineer	14. YEARS EXPERIENCE <table border="1"> <tr> <td>a. TOTAL 10</td> <td>b. WITH CURRENT FIRM 4</td> </tr> </table>		a. TOTAL 10	b. WITH CURRENT FIRM 4
a. TOTAL 10	b. WITH CURRENT FIRM 4				
15. FIRM NAME AND LOCATION (City and State) Oceanit Laboratories, Inc., Honolulu, Hawai'i					
16. EDUCATION (Degree and Specialization) MS Civil and Environmental Engineering / 2012 BS Civil Engineering / 2011		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Engineer in Training, New York, No. 088183			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Certifications: OSHA 10-Hour Training #36-005323436 (2015), OSHA Asbestos Awareness Training #1360 (2021), AHA Heartsaver First Aid CPR & AED (2021) Awards: Charles Lee Crandall Award Winner (2010 & 2011), Margaret Arronet Corbin Award Winner (2011), Intel Foundation Research Grant Recipient (2011)					

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State) Water Infiltration into Basement of International Arrivals Building Honolulu, O'ahu, Hawai'i	(2) YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES Ongoing</td> <td>CONSTRUCTION (If applicable)</td> </tr> </table>		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable)
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable)			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Project Engineer. Prepared book specifications for and provided detailing of improvements intended to stop water infiltration into the north and south portions of the Daniel K. Inouye International Airport basement. Researched specialty products and collaborated with manufacturers, distributors and local contractors to determine product suitability. Coordinated details with structural engineering consultant, SLSH.				
b.	(1) TITLE AND LOCATION (City and State) State Irrigation System Reservoir Safety Improvements Waimea, Big Island, Hawai'i	(2) YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES Ongoing</td> <td>CONSTRUCTION (If applicable)</td> </tr> </table>		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable)
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable)			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Project Engineer. Civil design and detailing of 40 linear feet of subgrade outlet pipe extension, new concrete intake box at the base, and new valve and valve stem system along the slope of Pu'ukapu Reservoir.				
c.	(1) TITLE AND LOCATION (City and State) Kahana Bay Erosion Mitigation Lahaina, Maui, Hawai'i	(2) YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES Ongoing</td> <td>CONSTRUCTION (If applicable)</td> </tr> </table>		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable)
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable)			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Project Engineer. Prepared conceptual plans and details using Civil 3D for the four (4) alternatives considered in the project's Environmental Impact Statement (EIS), intended to develop a sustainable and resilient approach to mitigate regional erosion along 3,700 linear feet of Kahana shoreline. Developed quantity take-offs for each alternative for cost estimating purposes. Contributed to preparation of written content for EIS publication.				
d.	(1) TITLE AND LOCATION (City and State) Mantokuji Mission Shoreline Adaption Pā'ia, Maui, Hawai'i	(2) YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES Ongoing</td> <td>CONSTRUCTION (If applicable)</td> </tr> </table>		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable)
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable)			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Project Engineer. Prepared specifications and RFP package for an emergency temporary protection structure, consisting of imported, beach-compatible sand wrapped in geotextile fabric, along 112 linear feet of shoreline fronting the historic temple structure. Coordinated permitting efforts with regulatory agencies, and provided construction administration, including reviewing submittals and responding to RFIs. Prepared preliminary plans and design for the restoration of the sandy beach in Mantokuji Bay, as a permanent solution to the erosion and consequent threat to the temple, to help facilitate discussions with the community and regulatory agencies.				
e.	(1) TITLE AND LOCATION (City and State) Ko'a Kea Resort Shoreline Protection Kōloa, Kaua'i, Hawai'i	(2) YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES Ongoing</td> <td>CONSTRUCTION (If applicable)</td> </tr> </table>		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable)
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable)			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Project Engineer. Performed site reconnaissance, involving a site visit and local shoreline recession data collection. Prepared an engineering assessment of the beach and shoreline erosion at the property, assessed adaption options considering cost, constructability, and permitting implications, and developed conceptual plans and details for 165 linear feet of restored beach fronting the resort to reduce risks to public safety and natural resources from shoreline recession. Also developed conceptual plan for comprehensive small-scale beach restoration spanning seven (7) properties along 1,600 linear feet of Kiahuna Beach to incite collaborative discussions between owners.				

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT*(Complete one Section E for each key person.)*

12. NAME Amber Park		13. ROLE IN THIS CONTRACT Landscape Architect / Civil Designer		14. YEARS EXPERIENCE	
				a. TOTAL 16	b. WITH CURRENT FIRM 3
15. FIRM NAME AND LOCATION (City and State) Oceanit Laboratories, Inc, Honolulu, Hawai'i					
16. EDUCATION (Degree and Specialization) Landscape Architecture / 2008 Minor in Communications			17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Proficient in AutoCAD applications; Civil 3D, Carlson CAD, Microstation and MS Office applications (Word, Excel, Powerpoint, Outlook), Adobe Photoshop and SketchUp					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) Water Infiltration into Basement of International Arrivals Building Honolulu, Oahu, Hawai'i		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable)	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Civil Designer. Prepared construction plans for basement repairs intended to stop water infiltration into the north and south portions of the Daniel K. Inouye International Airport basement. Coordinated work with project team and subconsultants.					
b.	(1) TITLE AND LOCATION (City and State) Halekulani Hotel Seawall Repairs Honolulu, Oahu, Hawai'i		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable)	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Civil / Landscape Designer. Prepared conceptual and short-term repair construction plans and renderings for several coastal erosion repair concepts. Identified existing conflicts and developed concepts.					
c.	(1) TITLE AND LOCATION (City and State) Various Commercial Projects – Pickering Associates West Virginia		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable)	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Landscape Architect. Prepared construction documents for commercial projects in the Civil Engineering department using Civil3D Cad software. Drawings included site plans, geometric layout plans, grading plans, utility plans, sediment and erosion control plans and sections and details. Coordinated with local planning departments and utility companies.					
d.	(1) TITLE AND LOCATION (City and State) Triple H Enterprises West Virginia		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable)	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Civil / Landscape Designer. Prepared conceptual site layout design drawings for construction feasibility and general layout.					
e.	(1) TITLE AND LOCATION (City and State) Various Commercial/Industrial Projects – Dieffenbach & Hritz Engineers West Virginia		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable)	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Civil / Landscape Designer. Prepared construction documents for commercial/industrial projects in the Civil Engineering department using Microstation software. Drawings included site plans, grading plans, utility plans, and sediment and erosion control plans and sections and details.					
f.	(1) TITLE AND LOCATION (City and State) Town Creek Landscape and Construction Company West Virginia		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Landscape Designer. Duties included site surveys, landscape design, and meeting with clients. Assisted in advertising and marketing for company. Created Adobe Photoshop plan Renderings and 3D Modeling in SketchUp.					

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT*(Complete one Section E for each key person.)*

12. NAME Berna Senelly	13. ROLE IN THIS CONTRACT Community Planning, Regulatory Permits and Approvals, Community Outreach and Facilitation	14. YEARS EXPERIENCE <table border="1"> <tr> <td>a. TOTAL 39</td> <td>b. WITH CURRENT FIRM 2</td> </tr> </table>		a. TOTAL 39	b. WITH CURRENT FIRM 2
a. TOTAL 39	b. WITH CURRENT FIRM 2				
15. FIRM NAME AND LOCATION (City and State) Oceanit Laboratories, Inc, Honolulu, Hawai'i					
16. EDUCATION (Degree and Specialization) BA (English) University of Hawaii 1976		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)					

19. RELEVANT PROJECTS

	(2) YEAR COMPLETED
(1) TITLE AND LOCATION (City and State) Kahana Bay Erosion Mitigation Project Environmental Impact Statement Kahana, Hawai'i	PROFESSIONAL SERVICES ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Project Coordinator. Services include team management, writing, research, agency consultation, community outreach, consultant report review, editing and processing in compliance with HRS 343 and HAR Title 11-200 and 11-200.1.	
(1) TITLE AND LOCATION (City and State) Waikiki Aquarium Water System Upgrade Environmental Assessment (EA) and Permits	PROFESSIONAL SERVICES 2023
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Project Coordinator. On EA, services include team management, writing, research, agency and community consultation, community outreach, consultant report review, editing and processing in compliance with HRS 343 and HAR Title 11-200 and 11-200.1. On permits, services include research, consultation and application preparation and processing.	
(1) TITLE AND LOCATION (City and State) Menu of Coastal Hazard Adaptation Strategies Suitable for Hawaii	PROFESSIONAL SERVICES 2022
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Project Manager: Development of an informational resource for the Hawai'i Coastal Zone Management Program outlining a menu of coastal hazard adaptation strategies that could be used in Hawai'i given our regulatory framework. Deliverable included a multi-layered website that contained over 40 strategies, their regulatory framework, pros and cons, case studies and references.	
(1) TITLE AND LOCATION (City and State) Roadway Repairs on Route 450 Kamehameha V Highway, Molokai	PROFESSIONAL SERVICES Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Permit and community outreach coordinator: Manage land use and approval processes and community outreach program on Dept of Transportation project to restore a portion of Route 450 Kamehameha V Highway that has been severely undermined and damaged and poses safety risks and commuting disruptions.	
(1) TITLE AND LOCATION (City and State) North Kawaihae Small Boat Harbor Breakwater Repair	PROFESSIONAL SERVICES Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Project Coordinator: Preparation and processing of Environmental Assessment, consultation and outreach related to federal, state and local permits and approvals	
(1) TITLE AND LOCATION (City and State) Kealakehe Wastewater Treatment Plant Kona, Hawai'i	PROFESSIONAL SERVICES 2021
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Community Outreach Coordinator. Extensive community outreach program to help West Hawai'i residents understand the first Hawai'i County-sponsored water reuse project. Services included outreach program design, in-depth community interviews, and facilitation of focus groups.	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT*(Complete one Section E for each key person.)*

12. NAME Dale Uno	13. ROLE IN THIS CONTRACT Program Administrator	14. YEARS EXPERIENCE	
		a. TOTAL 29	b. WITH CURRENT FIRM 4
15. FIRM NAME AND LOCATION (City and State) Oceanit Laboratories, Inc, Honolulu, Hawai'i			
16. EDUCATION (Degree and Specialization) Bachelor of Arts / English / University of Hawaii at Manoa / 1994		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Proficient in both Windows and Mac operating systems, as well as in the use of industry-standard software programs: Word, Excel, Outlook, PowerPoint, Photoshop, and Quickbooks Pro.			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	Ala Wai Watershed Flood Mitigation Project Honolulu, Hawai'i	2020	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Community Outreach Specialist. Facilitate Oceanit's engagement with members of the community, elected officials, government agencies, and organizations.		
b.	Kahana Bay Erosion Mitigation Project (Kahana, HI)	2021	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Assisted in preparation the EIS Preparation Notice and Draft EIS for beach restoration at Kahana Bay, Maui. Assisted in responses to hundreds of public community and agency comments.		
c.	Moloaa, Waimea Water Supply (Kauai, HI)	2022	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Helped resolve a boundary dispute involving the Kauai Department of Water, DAGS Land Survey Division, DLNR and DOT. The resolution requires updating of a survey map and the description on the legal document.		
d.	Organizational Change Management for Hawaii Gas' Project FOCUS (For Our CUSomers) (Hawaii statewide)	2021-2023	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Community Outreach Specialist. Assisted with conducting Design Thinking workshop for the project's core team and numerous individual and group stakeholder meetings; engaged clients in industry-standard methods and practices to guide them through a structured OCM approach that yielded a comprehensive stakeholder analysis matrix, as well as a deep understanding of individual and group needs. Developed and implemented an OCM plan that provided a structure for engaging with stakeholders through each phase of the project. Managed documentation of interactions with clients and stakeholders; maintained several logs and issue trackers. Drafted and submitted final report which included lessons learned and recommendations as requested by the client.		
e.	Kauai Kailani (Kauai, HI)	2021	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Facilitated introduction of concurrent resolutions in both houses of the Legislature which was a requirement for an easement needed for the project; liased with DLNR and kept clients updated on status of the legislation; HCR 166 was adopted by the Legislature.		
f.	North Kawaihae Small Boat Harbor Improvements (Kawaihae, HI)	2021-2023	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Researched pre-consultation list; assisted with pre-consultation process and managed documentation. Environmental Assessment drafting and editing.		
g.	Waikiki Aquarium Effluent Discharge System Upgrade (Honolulu, HI)	2023	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Environmental Assessment drafting and editing.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT*(Complete one Section E for each key person.)*

12. NAME Judi E. Morris		13. ROLE IN THIS CONTRACT Project Manager		14. YEARS EXPERIENCE	
				a. TOTAL 17	b. WITH CURRENT FIRM 17
15. FIRM NAME AND LOCATION (City and State) Oceanit Laboratories, Inc, Honolulu, Hawai'i					
16. EDUCATION (Degree and Specialization) B.A., University of Hawaii, Communications/Journalism, 1984 Juris Doctorate, Temple University, 1992			17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)					
• Program Manager, Financial Analyst and Contract Specialist for Oceanit. • Contract Administrator and Counsel for Oceanit – Advise Project Team and Senior Management with respect to issues involving contractual interpretation, business and legal risks and regulatory matters. • Contract Management/Project Management: Contract/Business Support (drafting and review of Contracts, Agreements, Awards, TQMs, Amendments, Task Orders, Modifications, Change Orders), Operations Support (Project Management meetings and Business Operation Meetings), Project Financial Support (budget, collections, billing issues). • Policy Development – Project Management Presentation and Training, Code of Business Ethics and Conduct, annual WIP information for Accounting, Post Award Conference forms, Total Quality Management forms					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) Program Management and Consulting Honolulu, Hawaii		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm					
Program Manager for various Engineering, Science & Technology and Coastal Projects. Ensures the quality and timeliness of all deliverables.					
b.	(1) TITLE AND LOCATION (City and State) Department of Health, Vital Records Management Information System. Honolulu, Hawaii		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm					
Modernization to the data structure and functional requirements for the data management system to support the administration and functioning of the Office of Health Status Monitoring					
c.	(1) TITLE AND LOCATION (City and State) Hawaii Gas, Quality Assurance for Project FOCUS. Honolulu, Hawaii		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm					
Provide Hawaii Gas an independent review of the Customer Information Management System, on an on-going basis to verify that system and legal requirements are being met, the project is on schedule, budgets are being adhered to, sufficient and successful testing is conducted, and the system is accepted before going live.					
d.	(1) TITLE AND LOCATION (City and State) Act 182 DLNR Consolidated Website		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm					
Project Manager for the Act 182 DLNR Consolidated Website Project. Project Management and oversight and IT consulting for the client in analysis and implementation of a DLNR outdoor recreational and commercial activities website. Tasks includes vendor and client management, quality assurance and schedule, scope and cost management.					
e.	(1) TITLE AND LOCATION (City and State) Climate Change Toolkit at Mantokuji Bay at Paia		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm					
Project Management and Administration of a State Grant utilizing student interns to work on climate change toolkit at Mantokuji Bay. Tasks includes project oversight, scheduling, planning and organizing the Oceanit mentors and Student Interns.					
f.	(1) TITLE AND LOCATION (City and State) Various Coastal Erosion Control Projects		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm					
Project Management and Administration for Oceanit's Coastal Erosion Projects, including, Halekulani Sinkhole Repair Project, Groin and Beach Nourishment at Kauai Kailani Condominiums, Kapaa, Kauai, and erosion issues for numerous private clients with beachfront properties.					

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT*(Complete one Section E for each key person.)*

12. NAME Renee Goodwin	13. ROLE IN THIS CONTRACT Project Administrator	14. YEARS EXPERIENCE	
		a. TOTAL 0	b. WITH CURRENT FIRM < 1
15. FIRM NAME AND LOCATION (City and State) Oceanit Laboratories, Inc, Honolulu, Hawaii'i			
16. EDUCATION (Degree and Specialization) Bachelor of Arts (BA), Communications, University of Hawaii, Manoa		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Project Management Professional (PMP), expected March 2024 Fiber to the Edge, Corning See the Light Training Program (2022) Certificate in Project Management, University of Hawaii Outreach College (2013) Fiber Optic Connector Solutions, Corning See the Light Training Program (2013) Project Management Fundamentals Course, Project Professionals, LLC (2007)			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	Broadband Project Administrator, Honolulu, Hawaii	2024	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Responsible for leading a technical and administrative team to support the Tribal Broadband Connectivity Program for the Department of Hawaiian Homeland to provide qualified broadband to the native Hawaiian community.		
b.	Project Manager, Honolulu, Hawaii	2012 to 2023	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm - Developed comprehensive client care project schedules, including identifying key milestones, deliverables, and required resources. - Oversaw ~10 IT projects daily, including working with engineers, data technicians, subcontractors, vendors, distributors, and customers to ensure timely delivery of equipment and services. - Managed multiple network equipment projects for prominent clients (e.g., HECO, DLNR, Queen's Health System, University of Hawaii), meeting and exceeding budgetary and project timelines.		
c.	Program Manager, University of Hawaii, Honolulu, Hawaii	2012 to 2022	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm - Developed and implemented comprehensive account strategies to identify tactical advice to close deals and meet government sales quotas for both Hawaiian Telcom and the University. - Led and managed ~\$1.5M worth of cabling construction and network infrastructure installation projects annually. - Conducted daily construction site inspections to ensure network infrastructure installations met strict Building Industry Consulting Service International (BICSI) standards and contractor timelines. - Served as the primary information liaison among University Technology and Facilities departments, as well as various General Contractors and sub-contractors. - Organized meetings and built collaborative relationships among workgroups (Architects, Engineers, Construction Consultants, Electricians) to review site discrepancies and meet project timelines. - Managed Avaya VOIP upgrade maintenance projects and oversaw the installation of new services.		
d.	Project Manager/Customer Relations Manager	2008 to 2012	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm - Managed and supervised customer installations of VOIP systems and internal business initiatives. - Spearheaded the development of new process design and guided change control procedures. - Oversaw vendors, internal resources, and clients, ensuring timely completion of projects and milestones within established budgets. - Addressed client inquiries and concerns regarding technical aspects and product offerings. - Oversaw sales product installations, testing, and customer acceptance, with a focus on high-demand items (e.g., IP PBX, HSIA, point-to-point circuits, PRI circuits, SIP, MPLS, and VOIP origination).		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT*(Complete one Section E for each key person.)*

12. NAME Jaydence Goya	13. ROLE IN THIS CONTRACT Senior Project Manager	14. YEARS EXPERIENCE	
		a. TOTAL 0	b. WITH CURRENT FIRM < 1

15. FIRM NAME AND LOCATION (City and State) Oceanit Laboratories, Inc, Honolulu, Hawai'i

16. EDUCATION (Degree and Specialization) Bachelor of Business Administration Degree in Marketing	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

- Read to Me International, Board Member, current Secretary (2015 – Current)
- 215 N King Street AOA, Board Member, current President (2010 – Current)
- Institute of Real Estate Management, Company member (2012 – 2023)
- Rotary Club of Honolulu Sunrise, Member (2015 – 2016)
- Sales and Marketing Executives of Honolulu (Member 2006 – 2016, Past President 2012 – 2013)

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Manager II, Strategy and Broadband Deployment (Honolulu, Hawaii)	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Managed a new Operations team created to execute the company's statewide fiber build strategy in the Multi-Dwelling Unit (MDU) division. Lead multiple projects, developed process flow, managed client onboarding and logistics, and supported consumer revenue initiatives. Collaborated with internal stakeholders in engineering, network planning, field operations, marketing, legal and sales to successfully bring network connectivity to AOA's (Association of Apartment Owners) throughout Hawai'i and meet established KPI's. Played key roles in external partnerships with the state, military, residential developers, telecommunication consultants and construction managers.		
	(1) TITLE AND LOCATION (City and State) Sr. Manager, Direct Consumer Sales (Honolulu, Hawaii)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Successfully built and managed a diverse team of account managers, sales engineers and customer support roles to execute the company's fiber network growth strategy throughout Hawai'i. Key focus on 3 – 10-year bulk acquisition contracts for IPTV and broadband services, optimizing ROI, brand recognition, and ensuring client retention / renewal. Developed new sales and presentation tools, lead contract negotiations, managed the client onboarding process and lead MDU call center training and communication. Launched successful client retention programs and secured strategic industry partners.		
	(1) TITLE AND LOCATION (City and State) MDU Program Manager (Honolulu, Hawaii)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm New position created to identify, execute and project manage fiber network enablement opportunities in the Non-Bulk MDU space. Collaborated with company stakeholders to deliver enablement options to AOA's and developers. Provided the Bulk MDU sales team with additional sales tools and tactics, Rights-of-Entry agreements, and launched a marketing exclusive opportunity (Preferred Provider) Program.		

Engineering and Planning
Key Personnel Resumes
Subconsultants



Craig Meierhoffer PE, SE

Associate

Mr. Meierhoffer has two decades of experience as a structural engineer. He has worked on projects of all types including military facilities, high-rise residential towers and commercial structures. His primary responsibilities include project management, structural design, and construction administration.

RELEVANT PROJECT EXPERIENCE:

- **OGG ConRAC**, Kahului, HI. The four-level, 1.85 million SF Consolidated Rental Car Facility (ConRAC) consists of a Customer Service Building; Ready/Return structure; and Quick Turnaround Area.
- **DOTA T-Hangar at Kalaeloa**, Kapolei, HI. Design-build of a 12,000 SF pre-engineered, metal framed, light gauge steel structure, intended for storage of general aviation aircraft.
- **Keahuolu Courthouse**, Kona, HI. A three-story judicial facility occupying approximately 150,000 SF and includes an approximately 10,000 SF mechanical building/enclosure.
- **UH Manoa New Multi-Family Mixed-Use Rental Project**, Honolulu, HI. 19-story and 15-story residential tower that includes a child-care facility and retail spaces. The units are anticipated to be affordable rentals for 400 graduate students and junior faculty.
- **KOA Terminal Modernization Program Phase 1**, Kona, HI. Contractor-assistance work including visual observation of existing structures to be demolished.
- **KOA Federal Inspection Services Building**, Kona, HI. Structural assessment of the existing structures to be demolished to make space for the new Federal Inspection Services Building.
- **Keaukaha Air National Guard - Upgrade Building Complex**, Hilo, HI. Upgrades to buildings to replace all existing jalousie louvered windows with energy efficient, double pane windows that meet AT/FP requirements.

EDUCATION:

- BSCE, Georgia Institute of Technology

REGISTRATIONS:

- Registered Structural, Civil, or Professional Engineer in CA, HI, KS, NV, OH, VA, and WA.

PROFESSIONAL ACTIVITIES:

- Vice President, Structural Engineers Association of Hawaii
- Member, American Society of Civil Engineers

PUBLICATIONS:

- "Maui's Kahului Airport ConRAC," *STRUCTURE*, October 2019.

E. RESUMES OF KEY PERSONNEL PROPOSED WHO WILL PROVIDE SERVICES FOR THIS PROJECT CATEGORY

(Complete one Section E for each key person.)

11. NAME James Kwong, PhD, P.E.	12. TITLE SERVICE PROVIDED Principal Geotechnical Engineer	13. YEARS OF EXPERIENCE <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">A. TOTAL</td> <td style="width: 50%; border: none;">B. WITH CURRENT FIRM</td> </tr> <tr> <td style="text-align: center; border: none;">38</td> <td style="text-align: center; border: none;">14</td> </tr> </table>		A. TOTAL	B. WITH CURRENT FIRM	38	14
A. TOTAL	B. WITH CURRENT FIRM						
38	14						

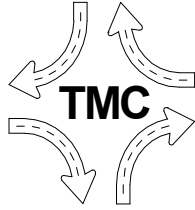
14. FIRM NAME AND LOCATION (*City and State*)
 Yogi Kwong Engineers, LLC, Honolulu, Hawaii

15. EDUCATION (<i>Degree and Specialization</i>) Ph.D., Geotechnical Engineering Properties and Engineering Geology of Tropical Soils and Rocks M.S., Engineering Geology and Geotechnics	16. CURRENT PROFESSIONAL REGISTRATION (<i>State and Discipline</i>) Hawaii - Civil Engineer – PE-6948 – Expires 04/30/2020 United Kingdom - Chartered Engineer
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17. OTHER PROFESSIONAL QUALIFICATIONS (*Publications, Organizations, Training, Awards, Etc.*)
 Dr. Kwong has more than 38 years of experience in managing and performing geotechnical and geological engineering investigations and construction management in Hawaii and the Pacific Basin. He has performed geotechnical engineering investigations including numerous high profile dam investigation and landslide projects. Projects managed by Dr. Kwong have won 12 national and 26 state awards for engineering excellence. He has published over twenty technical articles on geotechnical engineering in national engineering journals and was honored as the 2010 Engineer-of-the-Year by the Hawaii Council of Engineering Societies.

18. RELEVANT PROJECTS

	1. TITLE AND LOCATION (<i>City and State</i>) State Irrigation System Reservoir Safety Improvements Project Oahu, Molokai, Kauai and Big Island, HI	2. YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION (<i>if applicable</i>)</td> </tr> <tr> <td style="text-align: center; border: none;">On-Going</td> <td style="text-align: center; border: none;">On-Going</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (<i>if applicable</i>)	On-Going	On-Going
PROFESSIONAL SERVICES	CONSTRUCTION (<i>if applicable</i>)						
On-Going	On-Going						
a.	3. BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE ☒ Check if project performed with current firm Principal-in-Charge for the statewide safety evaluation and embankment improvements project on eight (8) dams situated in Kauai, Hawaii, Molokai, and Oahu. Prepared construction bid documents, including plans and specifications, and permitting materials. Dam improvements on Molokai and Oahu are complete.						
	1. TITLE AND LOCATION (<i>City and State</i>) DLNR Hawaii Dam and Reservoir Safety Program - Dam Safety Phase I Investigations Various locations on Oahu, Hawaii	2. YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION (<i>if applicable</i>)</td> </tr> <tr> <td style="text-align: center; border: none;">On-Going</td> <td style="text-align: center; border: none;">N/A</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (<i>if applicable</i>)	On-Going	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (<i>if applicable</i>)						
On-Going	N/A						
b.	3. BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE ☒ Check if project performed with current firm Principal-in-Charge. Provided geotechnical investigations at four (4) dams located on Oahu, namely Wahiawa Dam, Kemoo 5, Upper Helemano, and Opaepa 01. Performed a safety assessment of the four dams and appurtenant structures based on on-site inspections, a review of previous dam investigation reports, and analyses of records to support DLNR's identification of potential dam safety deficiencies and the need for repairs, operational changes, modifications, or additional analyses.						
	1. TITLE AND LOCATION (<i>City and State</i>) Opaepa Reservoir No. 2 - Dam Decommissioning Haleiwa, Oahu, HI	2. YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION (<i>if applicable</i>)</td> </tr> <tr> <td style="text-align: center; border: none;">2013</td> <td style="text-align: center; border: none;">2013</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (<i>if applicable</i>)	2013	2013
PROFESSIONAL SERVICES	CONSTRUCTION (<i>if applicable</i>)						
2013	2013						
c.	3. BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE ☒ Check if project performed with current firm Principal-in-Charge. Provided geotechnical review of the proposed dam removal plans and slope stability evaluation. Performed geotechnical reconnaissance and investigation, and conducted stability analyses in support of dam decommissioning.						
	1. TITLE AND LOCATION (<i>City and State</i>) Paauilo Dam Safety Evaluation Paauilo, Hawaii	2. YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION (<i>if applicable</i>)</td> </tr> <tr> <td style="text-align: center; border: none;">2008</td> <td style="text-align: center; border: none;">N/A</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (<i>if applicable</i>)	2008	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (<i>if applicable</i>)						
2008	N/A						
d.	3. BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE ☒ Check if project performed with current firm Principal-in-Charge. Conducted Phase I safety inspection of reservoir dam and appurtenant structures. Performed on-site visual observations and reviewed available records for existing dam safety deficiencies, and provided recommendations for Phase II studies.						
	1. TITLE AND LOCATION (<i>City and State</i>) Wahikuli Dam Safety Evaluation and Decommission Lahaina, Maui, Hawaii	2. YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION (<i>if applicable</i>)</td> </tr> <tr> <td style="text-align: center; border: none;">2013</td> <td style="text-align: center; border: none;">2013</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (<i>if applicable</i>)	2013	2013
PROFESSIONAL SERVICES	CONSTRUCTION (<i>if applicable</i>)						
2013	2013						
e.	3. BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE ☒ Check if project performed with current firm Principal-in-Charge of the decommissioning of the reservoir by breach of embankment. Reviewed available records, conducted geotechnical reconnaissance including exploratory borings and geophysical surveys, conducted slope stability analysis and provided geotechnical recommendations in support of construction bid document preparation. Construction Cost: \$6 million						
	1. TITLE AND LOCATION (<i>City and State</i>) Opaepa Reservoir No. 1 – Dam Improvements Haleiwa, Oahu, HI	2. YEAR COMPLETED <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">PROFESSIONAL SERVICES</td> <td style="width: 50%; border: none;">CONSTRUCTION (<i>if applicable</i>)</td> </tr> <tr> <td style="text-align: center; border: none;">2007</td> <td style="text-align: center; border: none;">2010</td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (<i>if applicable</i>)	2007	2010
PROFESSIONAL SERVICES	CONSTRUCTION (<i>if applicable</i>)						
2007	2010						
f.	3. BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE ☒ Check if project performed with current firm Principal-in-Charge. Performed Phase II geotechnical investigation of existing earth dam and spillway. Directed field geotechnical exploration of the dam embankment and conducted a slope stability analysis using finite element modeling methods.						



THE TRAFFIC MANAGEMENT CONSULTANT

Randall S. Okaneku, P.E., Principal * 1188 Bishop Street, Suite 1907 * Honolulu, Hawaii 96813
Telephone: (808) 536-0223 * Facsimile: (808) 537-2985 * Email: TMCHawaii@aol.com

RESUME OF RANDALL S. OKANEKU, P.E.

Mr. Okaneku is a traffic engineer and transportation planner whose professional career has spanned the field of transportation engineering since 1977: from highway and traffic signal design at a Hawaii-based consulting engineering firm and traffic operations and design at the City and County of Honolulu Department of Transportation Services; to specialization in traffic engineering and transportation planning and the founding of The Traffic Management Consultant in 1989. Mr. Okaneku has been a Licensed Professional Civil Engineer in the State of Hawaii, since 1980.

Record of Experience

The Traffic Management Consultant, Principal and Founder – 1989 to the Present
Austin, Tsutsumi & Associates, Inc., Principal Traffic Engineer – 1981 to 1989
Dept. of Transportation Services, C&C of Honolulu, Ass't. Leeward District Engineer – 1980 to 1981
Austin, Tsutsumi & Associates, Inc., Civil Engineer I through IV – 1977 to 1980

Education

Master of Business Administration – University of Hawaii, 1987
Master of Science in Civil Engineering/Transportation Engineering – University of Hawaii, 1978
Certificate in Planning Studies – University of Hawaii, 1978
Bachelor of Science in Civil Engineering – University of Hawaii, 1976
Short Courses in Traffic Engineering, Highway Design, and Transportation Planning –
Northwestern University, Georgia Institute of Technology, University of Wisconsin, Institute of Transportation Engineers, Trafficware

Past Projects

Project	Client	Description
Kawaihae Road and South Kohala Distribution Road	Community Planning and Engineering, Inc., Anson Murayama Ph. (808)-521-7491	Preparation of a Traffic Access Analysis Report
DHHL Lalamilo Subdivision	PBR Hawaii, Tom Witten, Ph. (808) 521-5631	Preparation of a Traffic Impact Analysis Report for inclusion in the Environmental Assessment.
Kinoole/Kilauea Traffic Circulation Study	County of Hawaii, Ben Ishii, Ph. (808) 961-8327	The study analyzed the traffic circulation of Kinoole Street and Kilauea Avenue between Ponohawai Street and Puainako Street.
Kamakana Villages at Keahuolu	Group 70 International, Inc., Jeff Overton Ph. (808) 523-5866	Preparation of a Traffic Impact Analysis Report.
W.H. Shipman Keaau Master Plan	W.H. Shipman, Kimo Lee Ph. (808) 966-9325	Preparation of Traffic Impact Analysis Report, including the access impacts at the intersection of Volcano Highway and Keaau Bypass Highway.



JENSON SANTOS, P.E., CCM

PROJECT MANAGER / CONSTRUCTION MANAGER

>PROFILE

Jenson Santos has been with the firm for 14 years and has over 16 years of experience. Mr. Santos' responsibilities include overseeing other electrical engineers and designers, managing and designing his own electrical projects while coordinating with other disciplines involving electrical designs of government, residential, commercial, and industrial projects throughout the State of Hawaii, Pohnpei, Kwajalein, and Guam.

Mr. Santos' electrical experience includes primary, secondary, and telecommunication site distribution systems; utility infrastructure distribution systems; office buildings; commercial, retail and industrial facilities; government and military facilities; sports and recreation centers; interior and exterior lighting systems; photovoltaic systems; telemetry and SCADA systems; pumping stations; treatment plants; roadway lighting systems. Mr. Santos performs quality control reviews on other engineer's designs; performs major property and facility condition assessments; preliminary engineering reports; feasibility studies; and master planning.

>EDUCATION / REGISTRATION

Education: Bachelor of Science, University of Hawaii, 2002

Registration: Electrical License No. 14286, Expiration Date 04/30/22

Training: Electrical Safety NFPA 70E W/Arch Flash Protection, 2011; 101 PTW Software Standard, 2015; 102 PTW Software Advanced, 2015; Certified Construction Manager, 2016

>EXPERIENCE

- Daniel K. Inouye International Airport (DKIIA) Diamond Head Expansion Conceptual Planning | Honolulu, HI
- DKIIA DH Extension Development Plan and Infrastructure Study | Honolulu, HI
- Kalaeloa Airport Terminal Roof Replacement | Honolulu, HI
- Kalaupapa Airport Electrical System Upgrade | Kalaupapa, HI
- Kahului Airport Installation WW WWTS | Kahului, Hawaii
- Kona International Airport USDA Inspection Building | Kona, HI
- Lagoon Drive Shell Service Station Demolition and Lighting | Honolulu, HI
- Kalia Road / Maluhia Road Intersection Improvements | Honolulu, HI
- Kapiolani Boulevard Street Lighting Replacement | Honolulu, HI
- Kaaawa Fire Station Communication Facility Improvements and Tower Replacement | Kaaawa, HI
- University of Hawaii at Manoa, Campus IT & Electrical Master Plan UHM14-541-410 | Honolulu, HI



E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Andrew R. Petersen, P.E.	Mechanical Engineer	a. TOTAL	b. WITH CURRENT FIRM
		11	10
15. FIRM NAME AND LOCATION (City and State)		 Okahara & Associates, Inc. ENGINEERING CONSULTANTS	
Okahara and Associates, Inc. Honolulu, Hawaii			
16. EDUCATION (DEGREE AND SPECIALIZATION)		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
BS Mechanical Engineering, University of Hawaii, Manoa, 2007		2015, Mechanical, Hawaii PE-16815	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			
American Society of Heating, Refrigerating and Air-Conditioning Engineers – Member, American Society of Plumbing Engineers – Member, Association of Pool & Spa Professionals - Member			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	Building 2 Renovation, CG Sector Guam Apra Harbor, Guam	2013	2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Role: Lead Mechanical Engineer. Scope: The project intent was to replace failing air conditioning systems, domestic hot water system and restroom fixtures serving a 3,000 sq ft office building. Design criteria included measures to implement or improve energy savings, individual zone control, ease of maintenance and system reliability. Mechanical Cost: \$182,000		
b.	Smithsonian Institution Energy Model and Photovoltaic Assessment @ SAO Base and Submillimeter Array Facilities Hilo & Mauna Kea, Big Island, Hawaii	In Progress	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Role: Lead Mechanical Engineer. Scope: The intent of this task order was to prepare a building energy and water model to establish an annual consumption baseline and to evaluate and recommend viable energy efficiency measures based on simple payback and life cycle cost analyses. Mechanical Cost: \$600,000		
c.	Strategic Energy Master Plan for Punahou School Honolulu, Oahu, Hawaii	2017	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Role: Lead Mechanical Engineer. Scope: The overall project intent was to determine the campus' maximum on-site renewable energy generation and Net-Zero potential by developing a strategic energy master plan. Mechanical scope included the preparation of an annual energy consumption baseline as well as the evaluation and recommendation of HVAC related energy efficiency measures based on energy savings potential, payback analysis and life cycle cost analysis. Mechanical Cost: \$9,000,000		
d.	Hale Kanahoahoa Replace Air Conditioning System and Reroof Halawa, Oahu, Hawaii	2017	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Role: Project Manager, Lead Mechanical Engineer. Scope: The project intent was to replace failing air conditioning equipment and reroof the Department of Agriculture's Animal Industry Laboratory. Mechanical scope included the replacement of exhaust fans, fume hood fans, an air cooled chiller and air handling units. Mechanical Cost: \$700,000		
e.	Wahiawa District Park Pool Pump Room Repairs Wahiawa, Oahu, Hawaii	2016	2017
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm Role: Lead Mechanical Engineer. Scope: The project intent was to replace failing circulation system and provide structural improvements for the pump room. Mechanical scope included reconfiguration of the pump room layout to improve maintenance clearances and selection of new pump and VFD for energy efficient operation. Mechanical Cost: \$200,000.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

11. NAME Max Solmssen, MURP	13. TITLE SERVICE PROVIDED Compliance Consultant	13. YEARS EXPERIENCE <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; border-bottom: 1px solid black;">a. TOTAL</td> <td style="width: 50%; border-bottom: 1px solid black;">b. WITH CURRENT FIRM</td> </tr> <tr> <td style="text-align: center;">11</td> <td style="text-align: center;">1</td> </tr> </table>		a. TOTAL	b. WITH CURRENT FIRM	11	1
a. TOTAL	b. WITH CURRENT FIRM						
11	1						
14. FIRM NAME AND LOCATION (City and State) Kaimana Environmental Solutions LLC, Honolulu, Hawai'i							
15. EDUCATION (DEGREE AND SPECIALIZATION) BA, English Literature, 2002 M.A. Urban and Regional Planning		16. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Hawaii Association of Environmental Professionals (HAEP) member					
17. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) HAZWOPER certified, 8-hour HAZWOPER Supervisor certified, OSHA 10-hour construction industry outreach training certified, Adult CPR/Standard First aid Certified, State of Hawaii Lead-based paint inspector, State of Hawaii Asbestos inspector							

18. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Honolulu International Airport Modernization Plan Environmental Support, Honolulu, Oahu, Hawai'i	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
a.	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Project manager providing environmental guidance for collecting multi-incremental samples from stockpiled soil, reporting laboratory analytical results and providing management of impacted soils (i.e.; disposal of pesticide and petroleum-impacted soils). Also provided management of surface water and sediment sampling that complies with the provisions of the U.S. Clean Water Act and other state regulations.		
	Honolulu International Airport Modernization Plan Environmental Assessment for Mauka Concourse, Honolulu, Oahu, Hawai'i	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
b.	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Planner/Technical writer responsible for research, writing EA sections & coordinating with subcontractors for a NEPA & Chapter 343 compliant EA. The Modernization Program is a 12-year, comprehensive program to improve and upgrade the airport to accommodate larger aircraft and newer maintenance and airline operations facilities. Tasks included conducting research, analyses and field reconnaissance and assisting in document preparation.		
	Red Hill bulk fuel storage facility long-term groundwater, fuel product and soil gas monitoring, Halawa, Oahu, Hawai'i	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
c.	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Served as a project manager tasked with providing equipment, labor and material required to conduct quarterly groundwater sampling at five wells located within the storage facility. Collected monthly soil vapor samples and conducted monthly fuel product monitoring.		
	Storm Water Pollution Control Program (SWPCP) Honokaa, Hawai'i	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
d.	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Environmental Scientist responsible for field inspection and report writing for HDOT Highways, Honokaa Baseyard.		
	Lead based paint, asbestos and PCB inspections (JBPHH) Pearl Harbor, Hawai'i	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
e.	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Field manager responsible for developing and executing sampling plans, field work and reporting and various regulated environmental media in support of operations at a key facility at JBPHH.		
	Underground Storage Tank (UST) closure for NAVFAC Pearl Harbor, Hawai'i	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
f.	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Field manager for the removal and closure of a buried UST found during construction at JBPHH. Completed confirmation soil and rinse water testing in accordance with the State of Hawaii DOH UST closure regulations.		
	Various Phase 1 and 2 Environmental Site Assessments (ESA) Hawai'i	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
g.	(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm Managed field teams and technical writers for Phase 1 ESAs and follow-up Phase 2 investigations for golf courses, former agriculture lands and dry cleaner sites on Oahu, Maui and Hawai'i island.		



Wayne M. Teruya

Vice President

Wayne M. Teruya is Vice President for Park Engineering. Wayne is also the Principal Land Surveyor, with management and administrative responsibilities for the firm's field surveying services. In this capacity, he is responsible for the accuracy, completeness, and quality of the work product; for adherence to the work schedule; and for completing the work within budget. In addition, Wayne is responsible for preparing and negotiating the scope of work and fee proposals for all surveying work that is performed in support of the firm's design projects and for work performed for other clients. Wayne is also responsible for the cadastral mapping work, which includes compilation of existing boundary and easement data, calculation of subdivisions and preparing legal descriptions.

Experience

Wayne has over 43 years of surveying experience, including engineering, topographic, hydrographic, boundary, control, and construction surveys. This experience includes planning and coordination of field surveys, performing field surveys, reducing and compiling field data, preparing calculations, subdivision mapping/processing, and preparing submittal to clients.

Some of DOT projects include Storm Water Management Program Plan, various locations; Height Modernization Facilities, Digital Leveling, Oahu, Phase 2, various locations; and other projects such as Mailiili Road Emergency Repairs of Drainage Culverts, Bridge and Road Design; Kamehameha Avenue Reconstruction; and Kaunualii Highway Improvements (Phase 1).

Education

Honolulu Community College, A.S., Engineering Technology (Surveying), 1975
University of Hawaii, B.S., Geology and Geophysics, 1980

University of Maine, Orono GPS-GAP
GPS – Adjustments with Observation Equations, 2006
GPS – Three-Dimensional Geodetic Model, 2007
GPS – Fundamental of Satellite Positioning, 2007

NOAA National Geodetic Survey
Geodetic Digital Leveling, 2011

Licensing

Licensed Land Surveyor – 6297, 1988, Hawaii
Land Court Surveyor – 227, 1990, Hawaii
Licensed Land Surveyor – 7677, 2000, California

Professional Affiliations

Hawaii Land Surveyors Association
National Society of Professional Surveyors



Hallett H. Hammatt, Ph.D., Principal / President

Education:

- 1976 Ph.D. - Anthropology, Washington State University
- 1967 M.A. - Archaeology (with Honors), University of Edinburgh, Scotland
- 1963 B.A. - History (with Honors), University of Pennsylvania

Qualifications:

- Founded CSH in 1982, has been active in the field of archaeology and historic preservation for over 40 years, and has been at the forefront of shaping state historic preservation practices
- Consults on historic preservation matters with many government agencies and private companies and is widely experienced in handling multidisciplinary studies, large and complex projects including intensive surveys, data recovery, and site protection and interpretation
- Proficient in and conducts training on federal historic preservation regulations including NHPA Section 106 and NAGPRA, is an expert in Hawaii's §6E historic preservation compliance process, and has presented testimony as an expert witness in Hawaiian archaeology at more than 30 public hearings and legal proceedings

Special Training, Honors, and Certifications:

- Served, by Governor Appointment, on the State of Hawai'i Review Board of Historic Places for 8 years
- 2012 Frank Haines Award for exemplary achievement in the field of historic preservation presented by the Historic Hawai'i Foundation
- First Aid / CPR (Current); HART's Safety/Environmental Orientation Training

Representative Experience:

- Supplemental Archaeological Inventory Survey and Burial treatment plan for two burial caves for the Waialae 180' Reservoir, Lot A Project Wai'ala'e Ahupua'a, Honolulu (Kona) District, O'ahu
- Archaeological monitoring of ground disturbing work and report for the Water Main Replacement at Ward Avenue, Honolulu, O'ahu
- Archaeological inventory survey for the Kamaile Plantation Wells and Production Wells Sites, Wai'anae (Kai) Ahupua'a, Wai'anae District, O'ahu
- Burial treatment plan for two burial caves for the Waialae 180' Reservoir, Lot A Project Area, Wai'ala'e Ahupua'a, Honolulu District, O'ahu
- Archaeological monitoring of ground disturbing work and report for the University Avenue 12-Inch Water Main, Part II Project, Mānoa, Waikīkī Ahupua'a, Honolulu (Kona) District, O'ahu
- Archaeological Monitoring Plan for the BWS Pensacola Street Water System Improvements Project Between Kīna'u Street and Kapi'olani Boulevard, Kaka'ako, Honolulu Ahupua'a, Honolulu (Kona) District, O'ahu
- Archaeological Monitoring Plan for the BWS Pensacola Street Water System Improvements Project Between Kīna'u Street and Kapi'olani Boulevard, Kaka'ako, Honolulu Ahupua'a, Honolulu (Kona) District, O'ahu
- Archaeological Monitoring Plan for the Revised Kahanahou Wastewater Pump Station Upgrade and Sewer Improvements Project, Kāne'ohe Ahupua'a, Ko'olaupoko District, O'ahu
- Archaeological Monitoring Report for the Waimānalo District Park Sewer Improvements Project, Waimānalo Ahupua'a, Ko'olaupoko District, O'ahu

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME Kevin Gooding, CPG	13. ROLE IN THIS CONTRACT Project Manager, Geology Technical Lead	14. YEARS EXPERIENCE <table border="1"> <tr> <td>a. TOTAL 27</td> <td>b. WITH CURRENT FIRM 5</td> </tr> </table>		a. TOTAL 27	b. WITH CURRENT FIRM 5
a. TOTAL 27	b. WITH CURRENT FIRM 5				
15. FIRM NAME AND LOCATION (City and State) INTERA Incorporated, 74 Kihapai Street, Kailua, HI 96734					
16. EDUCATION (DEGREE AND SPECIALIZATION) MS, Geology BS, Environmental Science		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Certified Professional Geologist (American Institute of Professional Geologists)			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Member-American Water Works Association, Member-American Institute of Professional Geologists, Member-Geological Society of America, Member-Association of Environmental and Engineering Geologists					
19. RELEVANT PROJECTS					
(1) TITLE AND LOCATION (City and State) Groundwater Use Reporting Outreach - Field Verification and Compliance for Maui and Molokai, HI		(2) YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES Ongoing</td> <td>CONSTRUCTION (If applicable) N/A</td> </tr> </table>		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A				
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm a. <i>Project Manager and Hydrogeologist.</i> Conducted site visits, gathered information and trained the owner/operator in water use reporting for the State of Hawaii. The purpose was to document well site conditions, general water end use status and provide training in order. Cost: \$220,010					
(1) TITLE AND LOCATION (City and State) Hydrogeological Services for the Kahului Well 11 and Compliance Project for Maui and Molokai, HI		(2) YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES Ongoing</td> <td>CONSTRUCTION (If applicable) 2018-2019</td> </tr> </table>		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) 2018-2019
PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) 2018-2019				
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm b. <i>Project Manager and Hydrogeologist.</i> Hawaiian Electric Company (HECO) is assisting Maui Electric Company (MECO) in drilling a replacement well for Kahului Well 11 at their Kahului Power Plant. The power plant wells are high-capacity (4000 gpm) wells supplying cooling water to the power plant. Well 11 and 12 supply water to Generating Unit 1. Maui Electric is a relatively small grid and each unit is critical for the island grid reliability. INTERA provided construction oversite services during the drilling of the test core hole. Staff were always onsite during drilling. HECO and subsidiary company MECO have strict environmental and health and safety rules. Compliance with OSHA and Clean Water Act rules were critically important. The drilling site was very small and was also in use for other plant operations. Rob Sengebusch and Kevin Gooding of INTERA managed the drilling of the borehole, collected hydrogeologic data and assisted the team in compliance with environmental and safety rules. The data collected from the borehole was essential in preparing the final production well design. Well construction is complete but HECO is waiting for the arrival of the production pump to conduct the final hydraulic testing. Cost: \$85,180					
(1) TITLE AND LOCATION (City and State) Geological Services Caltech Submillimeter Observatory (CSO) Decommissioning, Maunakea, HI		(2) YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2018-2019</td> <td>CONSTRUCTION (If applicable) N/A</td> </tr> </table>		PROFESSIONAL SERVICES 2018-2019	CONSTRUCTION (If applicable) N/A
PROFESSIONAL SERVICES 2018-2019	CONSTRUCTION (If applicable) N/A				
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm c. <i>Project Manager and Hydrogeologist.</i> The California Institute of Technology (Caltech) plans to decommission the Caltech Submillimeter Observatory (CSO), located near the summit of Maunakea, Hawai'i Island, Hawai'i. As part of the decommissioning process, Caltech is preparing an environmental assessment (EA). This report is intended to be part of the EA and provides a hydrogeological evaluation of Maunakea and a qualitative analysis of the potential impacts of wastewater from the CSO. This report also includes a geologic characterization of the rock fill material used in the CSO's foundation. The regional groundwater body below the summit of Maunakea is probably a dike-impounded high-level aquifer. The five aquifer systems that connect to the peak of Maunakea are Honokaa, Pa'uilo, Hakalau, Onomea and Waimea and there are an unknown number of relatively small perched water bodies associated with buried glacial deposits and deposits of weathered ash or sediment. Potential impacts to the regional aquifers, springs on the slopes of Maunakea and Lake Waiau were analyzed using published literature, visual hydrologic inspection, by estimating travel times and attenuation, looking at nitrate data from water supply wells and by estimating dilution factors. Based on this analysis, there is virtually no possibility of impacts from wastewater on the surrounding regional aquifers. Cost: \$68,136					
(1) TITLE AND LOCATION (City and State) Hydrogeological Services for Kilauea Lighthouse Village Market Café Injection Wells, Kaua'i, HI		(2) YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2018-2019</td> <td>CONSTRUCTION (If applicable) 2019</td> </tr> </table>		PROFESSIONAL SERVICES 2018-2019	CONSTRUCTION (If applicable) 2019
PROFESSIONAL SERVICES 2018-2019	CONSTRUCTION (If applicable) 2019				
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm d. <i>Project Manager and Hydrogeologist.</i> Provided the client with options for wastewater disposal. Conducted preliminary research on Kilauea and Kōloa Volcanics geology, monitored test hole drilling, logged the geology of the borehole core, prepared an injection well design and conducted a preliminary injection test. Cost: \$43,000					
(1) TITLE AND LOCATION (City and State) Plugging Kalaeloa Desalination Facility, O'ahu, HI		(2) YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES Ongoing</td> <td>CONSTRUCTION (If applicable) N/A</td> </tr> </table>		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A
PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) N/A				
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm e. <i>Project Manager and Hydrogeologist.</i> The Honolulu Board of Water Supply plans to build a seawater desalination plant. INTERA assessed the possibility of interaction between the seawater-quality source wells and the brine injection wells. In addition, INTERA assisted in locating the wells and will prepare design and specification documents. Cost: \$220,000					

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		A. TOTAL	b. WITH CURRENT FIRM
Nicole Shrader	Dive Safety Officer, Marine Biologist, Environmental Scientist, and Lab Technician	6	6

15. FIRM NAME AND LOCATION (City and State)

AECOS Inc. Kaneohe, HI

16. EDUCATION (DEGREE AND SPECIALIZATION)

BS Marine Science

BS Oceanography

Hawaii Pacific University, Kaneohe, HI

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

PADI Master Scuba Diver Trainer (16 years)

AAUS Full Member/DSO

Maritime Security Awareness (MARSEC) training

Certified First Aid and CPR

TWIC

DAN Oxygen Administration for Divers

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	North Kawaihae SMB, Kohala, HI	2023	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm AECOS Inc. was contracted to assess the benthic community around a damaged breakwater in Kawaihae SMB. Surveys were completed using snorkel equipment. Transects and underwater photographs were used to provide qualitative and quantitative data. I assisted in survey planning, safety management, and collected survey data.		
b.	Marine biological survey at the Waikiki War Memorial Natatorium Honolulu, HI	2023	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm AECOS, Inc. was contracted to conduct surveys to inventory marine assemblages in two areas of the Waikiki War Memorial Natatorium, the interior pool bottom, and the exterior wall. Biologists collected data on percent benthic composition and coral abundance and size class distribution using SCUBA and snorkel equipment. As the Dive Safety Officer, I was responsible for reviewing and approving the Dive Safety Plan. On site, I conducted the benthic composition data surveys around the exterior walls. Compiled data and identified marine species.		
c.	Marine biological resources of Waikiki Beach, Oahu	2022	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm AECOS was contracted to conduct marine surveys of the waters adjacent to the Project location to support the EIS development. AECOS biologists conducted surveys to inventory marine assemblages in the nearshore and offshore waters. Biologists used SCUBA and snorkel gear to collect data on bottom type, coral colony size-frequency (size, diversity, new recruits, large colonies, health); diversity, identification and categorization (common vs. uncommon) of algae (including crustose coralline algae) and seagrass; and non-coral macro-invertebrates greater than 3 cm. As DSO, I was responsible for reviewing and approving the Dive Safety Plan. On site, I conducted surveys in near and offshore environments using SCUBA and snorkeling equipment, which included identifying and quantifying marine species.		
d.	Marine resource assessment for Kahana Bay erosion mitigation project Kahana, Maui, HI	2019	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☒ Check if project performed with current firm AECOS, Inc. was contracted to develop methodology to assess resources, assess general impacts from the project, and guide design to have the least amount of damaging effect. Surveys were conducted in 3 separate areas to quantify coral colonies, quantify diversity, size, density, and biomass of fishes, identify, and categorize algae and seagrass, and identify and quantify macro-invertebrates. As DSO, I was responsible for reviewing and approving the Dive Safety Plan. On site, I conducted surveys in near and offshore environments using SCUBA and snorkeling equipment, which included identifying and quantifying marine species.		

Example Projects of **Community Planning**

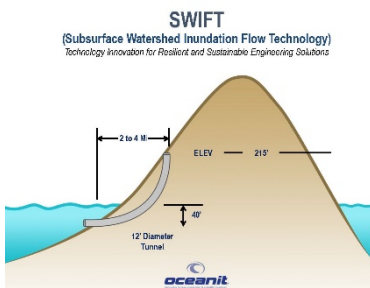
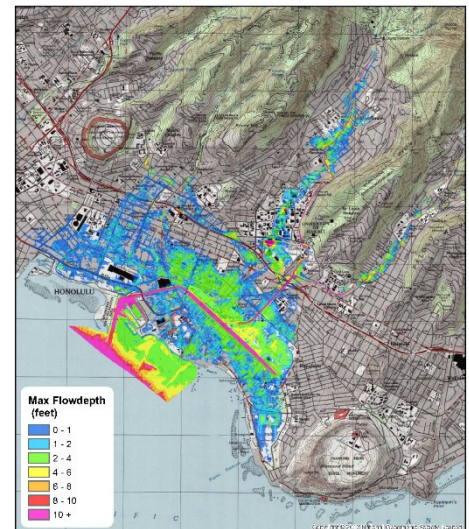
F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 6
21. TITLE AND LOCATION (City and State) Ala Wai Canal Flood Risk Management Project Honolulu, Hawai'i	22. YEAR COMPLETED PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER City and County of Honolulu Permitted Interaction Group	b. POINT OF CONTACT NAME Councilwoman Carol Fukunaga	c. POINT OF CONTACT TELEPHONE NUMBER (808) 768-5010
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

The feasibility phase for this project was initiated in July 2002. Following the 2004 Manoa flood, the project was amended to include the upstream portions of the Ala Wai Watershed (Manoa, Makiki, Palolo). The project restarted in 2007, incorporating the information developed in the Manoa Watershed Project. In 2012, ecosystem restoration was eliminated as a study objective and the project was renamed the Ala Wai Canal Flood Risk Management. A report by the USACE was signed in December 2017 and a Record of Decision for the EIS was reached in September 2018, concluding the feasibility phase for the project. After the release of the 2017 FEIS, there was widespread community opposition that was very consistent with the concerns raised in 2004. While this plan might prevent large-scale flood damage, community members felt it was deeply flawed, and would cause more damage to the ecosystem and to property than it was worth. In answer to very vocal community response, the Honolulu City Council formed the Ala Wai Permitted Interaction Group (PIG), which hired Oceanit to help with community outreach and ensure that the project's full flood control was fully utilized.



Oceanit developed the SWIFT (Subsurface Watershed Inundation Flow Technology) design concept that would utilize tunnels to remove water from the upper watersheds directly to the ocean and hence mitigate the flooding levels at lower watershed. Hydraulic modeling was performed to evaluate and optimize the design. ArcGIS tool was used to generate flood maps from various storm events under different design options.

Oceanit held numerous community meetings involving residents, private businessowners, non-profit leaders, and government officials to collect feedback and input from those who would be affected most directly. A physical 3D model of the watershed was created to better engage the community and communicate options and solutions. Flood inundation animations and flood maps could be projected onto the 3D model to demonstrate the effects of stormwater at varying storm frequencies. A modified visualization tool was also created to allow for 2D presentation via zoom web meeting.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a. (1) FIRM NAME Oceanit	(2) FIRM LOCATION (City and State) Honolulu, Hawai'i	(3) ROLE Prime consultant
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 3
21. TITLE AND LOCATION (City and State) Kahana Bay Erosion Mitigation Project Lahaina, Maui, Hawaii	22. YEAR COMPLETED PROFESSIONAL SERVICES Ongoing CONSTRUCTION (If applicable) 2022 (estimated)	

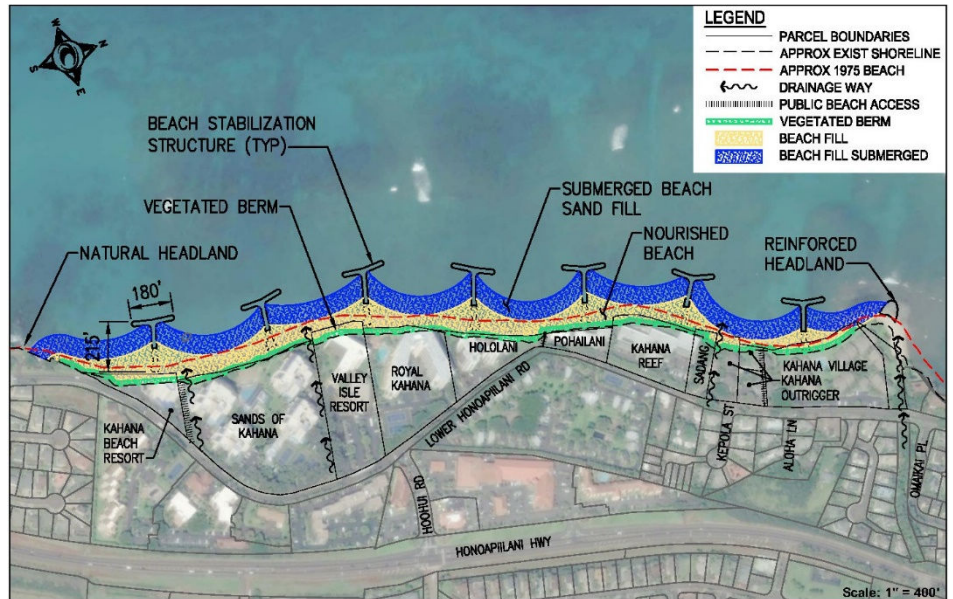
23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Kahana Bay Steering Committee (KBSC) / County of Maui Department of Planning	b. POINT OF CONTACT NAME Maui County Jim Buika	c. POINT OF CONTACT TELEPHONE NUMBER (808) 270-6271
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Oceanit prepared an Environmental Impact Statement for the Kahana Bay Steering Committee (KBSC). For decades, Kahana Bay on Maui has experienced severe coastal erosion from sea level rise, storm events, and shoreline development. This has resulted in natural hazard risks to public safety and infrastructure. Approximately 1,200 feet of this shoreline is currently protected by temporary erosion control structures.

The KBSC represents nine condominiums and one kuleana parcel along the coastline between Kahana Stream and Pōhaku Park. The Proposed Action presents a sustainable and resilient solution to mitigate regional shoreline erosion using sand transported from offshore for beach nourishment and berm enhancement. Seven rock T-groind and one reinforced rock headland structure will be constructed to stabilize the beach. The beach will be restored to the approximate width that existed in 1975 which is about 65 feet wider on average than is current. Other benefits include six coves created in the nearshore area, addition of hard substrate and niche space for marine species, and preserving long-term water quality.



Seven rock T-groind and one reinforced rock headland structure will be constructed to stabilize the beach. The beach will be restored to the approximate width that existed in 1975 which is about 65 feet wider on average than is current. Other benefits include six coves created in the nearshore area, addition of hard substrate and niche space for marine species, and preserving long-term water quality.

Oceanit conducted an extensive community outreach program in planning and design of this project. Several community meetings were held and eleven in-depth key informant interviews were conducted. In addition, Oceanit conducted four focus groups, including cultural, ocean users, sustainability and residents. We are currently supporting the KBSC in working with the County of Maui to form a Community Facilities District (CFD) to fund teh project.

Estimated Construction Cost: \$26 to \$40 million



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Oceanit Laboratories, Inc.	(2) FIRM LOCATION (City and State) Honolulu, HI	(3) ROLE Prime, Civil Engineer, Coastal Engineer, Planner
b.	(1) FIRM NAME Cultural Surveys Hawaii	(2) FIRM LOCATION (City and State) Kailua, HI	(3) ROLE Cultural Assessment

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 10
21. TITLE AND LOCATION (City and State) Mauna Lahilahi Beach Park Erosion Control Wai'anae, Hawai'i	22. YEAR COMPLETED PROFESSIONAL SERVICES 2019 CONSTRUCTION (If applicable) 2021	

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER City and County of Honolulu, Department of Design and Construction	b. POINT OF CONTACT NAME Curtis Kushimaejo	c. POINT OF CONTACT TELEPHONE NUMBER (808) 768-8455
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Scope: Oceanit prepared plans, specifications, cost estimates, an Environmental Assessment, and permits for a shoreline erosion control design to protect the park lands and preserve the sand beach makai of the Mākaha Surfside Apartments on the leeward side of O'ahu. Located just landward of the eroding shoreline, the apartment complex was damaged by hurricanes and by seasonal high waves several times in the past. The project consisted of a temporary sandbag revetment to protect inland areas, a breakwater to reduce wave energy, and beach restoration. The breakwater is a rubble structure extending about 250 feet parallel to the eroding shoreline. The beach was built with 10,000 cubic yards of sand from an inland quarry.



In Phase II, Oceanit designed, prepared specifications and environmental permits, and oversaw construction to replace the temporary sand bag revetment with a 330-ft permanent rock revetment along the inner shoreline of the pocket beach. The revetment consisted of two layers of underlayer stones, totaling 500cy, and two layers of basalt armor stones totaling 2,035 cy. Construction of the revetment was completed in 2021.

Other tasks included hydrographic surveys, wave and current analysis to optimize the design, post-design services during bidding and construction, construction management services, benthic marine biological surveys, and post construction services.

Cost: \$1M



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Oceanit Laboratories, Inc.	(2) FIRM LOCATION (City and State) Honolulu, HI	(3) ROLE Prime—Coastal Engineer and Planner
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 2
21. TITLE AND LOCATION (City and State) Waikīkī Aquarium Effluent Disposal System Upgrade	22. YEAR COMPLETED PROFESSIONAL SERVICES Ongoing CONSTRUCTION (If applicable) 2023 (Est.)	

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER University of Hawai'i	b. POINT OF CONTACT NAME Brandon Shima	c. POINT OF CONTACT TELEPHONE NUMBER (808) 216-4780
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

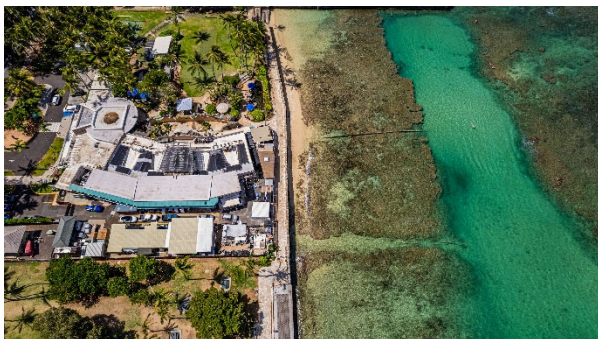
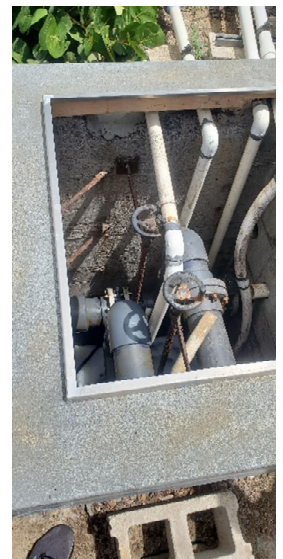
The Waikīkī Aquarium is the second oldest operating public aquarium in the U.S., have been operating out of its current facility since 1955. Oceanit was contracted by the University of Hawaii to analyze the Aquarium wastewater systems and develop a comprehensive process water system redesign with the goal to ensure compliance with increasing environmental regulatory requirements and future expansion and improvements. Evaluation and redesign of the wastewater systems involved assessment of the electrical system, mechanical systems, local geology, and biological life support systems. Additionally, all infrastructure improvements will be designed to accommodate future displays and other upgrades. Challenges included navigating a stringent regulatory environment, coordinating investigations during COVID restrictions, specifying proper state of the art water treatment and life support equipment, and working within the limitations of aging infrastructure.



Oceanit managed a large team of subcontractors for this complicated project, including mechanical engineers, electrical engineers, hydrogeologists, geotechnical engineers, surveyors, aquarium and water quality specialists, architects, pipe surveyors, and aquarium life support systems specialists. Coordination and communication challenges with such a large subcontractor team was compounded as the there were also multiple groups representing the client input, including the University of Hawaii, Waikiki Aquarium, and donors to the aquarium. The Oceanit team was integral in maintaining lines of communication within and between groups, coordinating with regulators, and keeping the project moving and everyone on the same page.

Oceanit's deliverables included a Water System Upgrade Plan, Basis of Design Report, Compliance Monitoring Plan, and other necessary components for Federal, State, and County permit regulations.

Oceanit will oversee construction of the multi-million-dollar infrastructure improvement project.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Oceanit Laboratories, Inc.	(2) FIRM LOCATION (City and State) Honolulu, HI	(3) ROLE Prime Consultant, Civil/Env. Engineer, Biologist
b.	(1) FIRM NAME Okahara & Associates, Inc.	(2) FIRM LOCATION (City and State) Hilo, HI	(3) ROLE Mechanical Engineer

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 3
21. TITLE AND LOCATION (City and State) Ala Wai Small Boat Harbor Improvements Honolulu, Oahu, Hawai'i	22. YEAR COMPLETED PROFESSIONAL SERVICES 2013 CONSTRUCTION (If applicable) 2014	

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Department of Land and Natural Resources	b. POINT OF CONTACT NAME Mr. Eric Yuasa	c. POINT OF CONTACT TELEPHONE NUMBER 808/587-0122
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

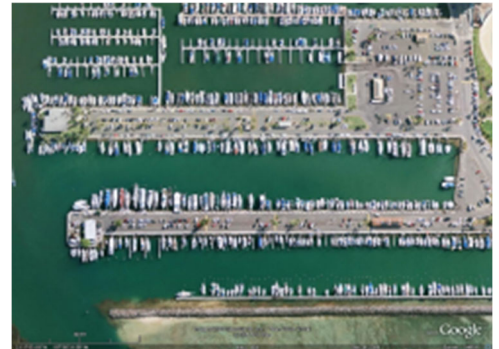
Scope: Oceanit prepared construction plans and specifications and secured permits to replace the existing 6-inch potable water main, including lateral connections, valves, and meters, with new four-inch and eight-inch water mains, lateral connections, valves, and meters.

A design for replacement of existing fixed finger piers with aluminum and composite floating piers, including ADA-accessible cross docks, at the 500 Row Docks of Ala Wai Small Boat Harbor (AWSBH) was also provided. Related improvements included gangways, security gates, and utilities (electrical and water).



Oceanit subcontracted or prepared:

- A topographic survey, including the location of utilities;
- A hydrographic survey;
- A geotechnical investigation;
- Conceptual designs and alternatives;
- Construction plans and specifications;
- An engineering cost estimate; and
- All required permits (Department of the Army permit, 401 Water Quality Certification) prior to construction. Oceanit also provided post-design services during bidding, and construction services for the waterline replacement.



Oceanit prepared and obtained approval of a Traffic Control Plan to provide safe work zones for the contractor and safe passageways for pedestrian and motorists passing through the construction site during installation of the water line.

Design Fee: \$337,375 and Waterline replacement: \$1.3 million



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Oceanit	(2) FIRM LOCATION (City and State) Honolulu, Hawai'i	(3) ROLE Prime consultant
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 6
21. TITLE AND LOCATION (City and State) Groin and Beach Nourishment at Kauai Kailani Condominiums Kapa'a, Hawai'i	22. YEAR COMPLETED PROFESSIONAL SERVICES Ongoing CONSTRUCTION (If applicable) Anticipated summer 2022	

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Association of Unit Owner of Kauai Kailani Condominiums	b. POINT OF CONTACT NAME Brian Mose	c. POINT OF CONTACT TELEPHONE NUMBER (250) 248-0969
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Kauai Kailani has had several beach erosion since 2012, when a concrete groin upstream of the property was removed. Over a two-year period following the groin removal, erosion removed approximately 500 cy of sand. An emergency temporary sand bag revetment was installed in 2017 to protect the escarpment fronting the property. The temporary erosion control provided protection while Oceanit worked on planning a long-term solution.

The scope was to restore Kauai Kailani Beach by constructing a temporary sand bag groin and to use compatible beach sand that has accreted in the Waipouli Drainage Canal for beach nourishment fronting the condominiums. The proposed temporary sand bag groin was designed to occupy a similar footprint to the concrete structure that was removed in 2012.

The beach nourishment required approximately 1,000 cy of beach sand. Subsequent beach nourishments are anticipated after 3-4 years, with each 100-200 cy volumes, over the course of 10 years.



Post Construction



Erosion before project

Engineering design services included:

- 1) Site inspection, evaluation and recommendations;
- 2) Construction plans including grading, site, BMP notes and detail plans
- 3) Prepare specifications and contract documents
- 4) Prepare required permits
- 5) Construction support services when required.

Approximate construction cost: \$1,000,000

During Construction



Prior to beach construction



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a. (1) FIRM NAME Oceanit Laboratories, Inc.	(2) FIRM LOCATION (City and State) Honolulu, HI	(3) ROLE Prime
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 1
21. TITLE AND LOCATION (City and State) Mantokuji Soto Mission Shoreline Adaptation Pā'ia, Maui, HI		22. YEAR COMPLETED PROFESSIONAL SERVICES Ongoing CONSTRUCTION (If applicable) 2023

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Mantokuji Mission Board of Directors	b. POINT OF CONTACT NAME Eric Moto, Board President	c. POINT OF CONTACT TELEPHONE NUMBER
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)



The beach and shoreline at this historic Soto Zen Buddhist temple is eroding and much of the previously documented sandy beach has been lost.

Historically, this beach was mined for sand used in public works. Without a beach to buffer coastal forces, inland areas are exposed to greater hazards including flooding, wave uprush, and scouring.

Oceanit was contracted by the Board of Directors for engineering assessment, agency coordination, and construction administration services related to the hazard mitigation. The historic temple structure is imminently threatened by the erosion.

The shoreline adaptation project included installation of emergency temporary erosion control structures along the uppermost portion of the beach profile, seaward of the property. The installation helps retain unstable soils and the slow progression of active shoreline erosion, which was approaching the foundation of the temple. This short-term mitigation measure will remain in place for about three years while the



temple engages in a complex long-term planning process. Among the options being considered are restoring the protective beach in Mantokuji Bay, retrofitting the temple to accommodate future coastal hazards, and relocating or demolishing other structures if necessary.

Estimated Construction Costs: \$400,000



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Oceanit Laboratories, Inc.	(2) FIRM LOCATION (City and State) Honolulu, HI	(3) ROLE Prime
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 5
21. TITLE AND LOCATION (City and State) North Kawaihae Small Boat Harbor Improvements Kawaihae, Hawai'i	22. YEAR COMPLETED PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) 2022 (est.)

23. PROJECT OWNER'S INFORMATION

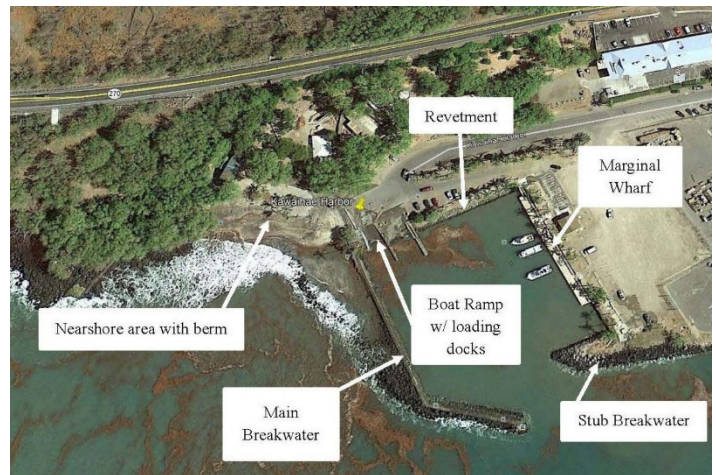
a. PROJECT OWNER Department of Land and Natural Resources Division of Boating and Ocean Recreation	b. POINT OF CONTACT NAME Mr. Finn McCall, P.E.	c. POINT OF CONTACT TELEPHONE NUMBER (808) 587-3250 / finn.d.mccall@hawaii.gov
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Oceanit is currently under contract with the Department of Land and Natural Resources Division of Boating and Ocean Recreation (DLNR - DOBOR) to provide designs for repairs to the small boat harbor. The main breakwater that is supposed to protect the harbor has undergone major repairs in the past due to wave damage. The most recent wave damage occurred in January 2020, rendering the marginal wooden wharf and much of the harbor utilities unusable. The proposed improvements will strengthen the compromised breakwater, construct a sand berm along the shoreline to prevent sand from accumulating on the boat ramp and replace or repair damaged infrastructure. These actions will remove safety hazards, improve conditions, and increase the usability of the harbor for harbor users.

Oceanit provided project management, topographic and bathymetric surveys, damage assessment reports for the main breakwater, marginal wharf, rock revetment, parking lot, boat washdown and drainage improvements, utility upgrades, a drainage evaluation, wave modelling and report, an Environmental Assessment, and all required permits.

Estimated Construction Cost: Main Breakwater - \$4.62 million,
Infrastructure Improvements: \$1.16 million



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a. (1) FIRM NAME Oceanit	(2) FIRM LOCATION (City and State) Honolulu, Hawai'i	(3) ROLE Prime consultant
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 8
21. TITLE AND LOCATION (City and State) Community Outreach for Proposed Improvements to Kealakehe Wastewater Treatment Plant Kona, Hawaii	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2021	CONSTRUCTION (if Applicable) N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Hawai'i County Department of Environmental Management	b. POINT OF CONTACT NAME Craig Lekven Brown and Caldwell	c. POINT OF CONTACT TELEPHONE NUMBER 808.442.3301
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>
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This project was not performed by Oceanit but managed and completed by Berna Senelly who is currently an Oceanit employee.

The Hawai'i County Department of Environmental Management (DEM) is proposing improvements to the Kealakehe Wastewater Treatment Plant (WWTP) that will allow for reuse of wastewater treated in accordance with the State of Hawai'i, Department of Health (DOH) Reuse Guidelines R-1 classification, as well as disposal of treated effluent not treated for R-1 classification.

A community outreach program was conducted to introduce people to the proposed project and provide information to help the community understand County objectives and the proposed means by which these objectives can be met. These outreach efforts were intended to raise awareness and engage the community in constructive dialogue throughout the planning and Environmental Impact Statement (EIS) stages so that the project team can proactively address community concerns as the project proceeds.

A key component of the outreach program is to incorporate early and ongoing guidance from a cross-section of key community leaders. The first stage of the outreach program was designed to lay the foundation for future community conversations and in-depth interviews were conducted with a wide cross-section of community/

The second stage of the outreach program was designed to expand on the in-depth interviews with focus groups of like-minded people who share common interests. This approach was designed to help participants fully explore topics from similar perspectives. Four focus groups were conducted including environment, business and landowners, recreation and public agencies.

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 1		
21. TITLE AND LOCATION (City and State) Program Management Consulting Support for the State of Hawai'i	22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2015</td> <td>CONSTRUCTION (If applicable)</td> </tr> </table>		PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable)
PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable)			

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER State of Hawai'i, Office of Information Management & Technology (OIMT)	b. POINT OF CONTACT NAME Leila Kagawa	c. POINT OF CONTACT TELEPHONE NUMBER (808) 586-6000
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Scope: Oceanit provided organizational change management and information technology consulting services to the State of Hawai'i including:

- Support for the Enterprise Resource Planning (ERP) system RFP and preparation for implementation;
- Program management services for multi-million dollar programs including Tax System Modernization and Health IT; and
- Planning and stand up of the State's Program Management Center of Excellence (PMCE)

The State faces the daunting task of transforming legacy business practices and systems into a more modern, unified and efficient model. The rapidly changing world of information technology and the increasing requirements of a growing state present an opportunity to vastly increase the efficiency and effectiveness of state government. The scope of the projects include developing requirements, Achieving positive, lasting institutional change at this scale requires two essential elements in order to develop a working model for transformation and maximize its acceptance during implementation.

Oceanit was program manager for the statewide ERP program. Our scope of services include program management support in the following areas: strategic planning, governance, subject matter expertise, policy, portfolio management, enterprise architecture, business process reengineering, budget and financial planning, business case analysis, risk management, program management office, acquisition and strategic sourcing, organizational development and human capital management, organizational change management, communications and marketing, open government, quality assurance, training, facilitation, operations and service level management, application development, information assurance and privacy, and administrative support.

Critical to our foundation in managing our projects was our approach in assisting with change management, which included the following elements: Human Factors Element (HFE) – A planning and implementation method that incorporates the human factors influencing acceptance and utilization of innovative, new business solutions Business and Technology Element (BTE) – Efficient business processes with various options for technology systems and tools

The Oceanit team is uniquely qualified in both HFE and BTE aspects. Oceanit both applies and instructs companies and organizations in Hawai'i's finance, tourism, technology and communications sectors in conceiving and implementing innovative business solutions uniquely suited for each application. This deep HFE experience combined with Oceanit's Hawai'i roots and 27 years of technology and innovation experience offers a truly unique approach to effectively facilitating significant change and acceptance for Hawai'i's Transformation Plan.

Cost: \$ 3,139,742

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a. (1) FIRM NAME Oceanit Laboratories, Inc.	(2) FIRM LOCATION (City and State) Honolulu, HI	(3) ROLE Prime
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, If not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

7

21. TITLE AND LOCATION (City and State)

Social Impact Assessment for the A&B Proposed Water Lease for the Nāhiku, Ke'anae, Huelo, and Honomanū License Areas
Lahaina, Maui, Hawaii

22. YEAR COMPLETED

PROFESSIONAL SERVICES
2021

CONSTRUCTION (if Applicable)
N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER
A&B

b. POINT OF CONTACT NAME
Keola Cheng, Wilson Okamoto
and Associates

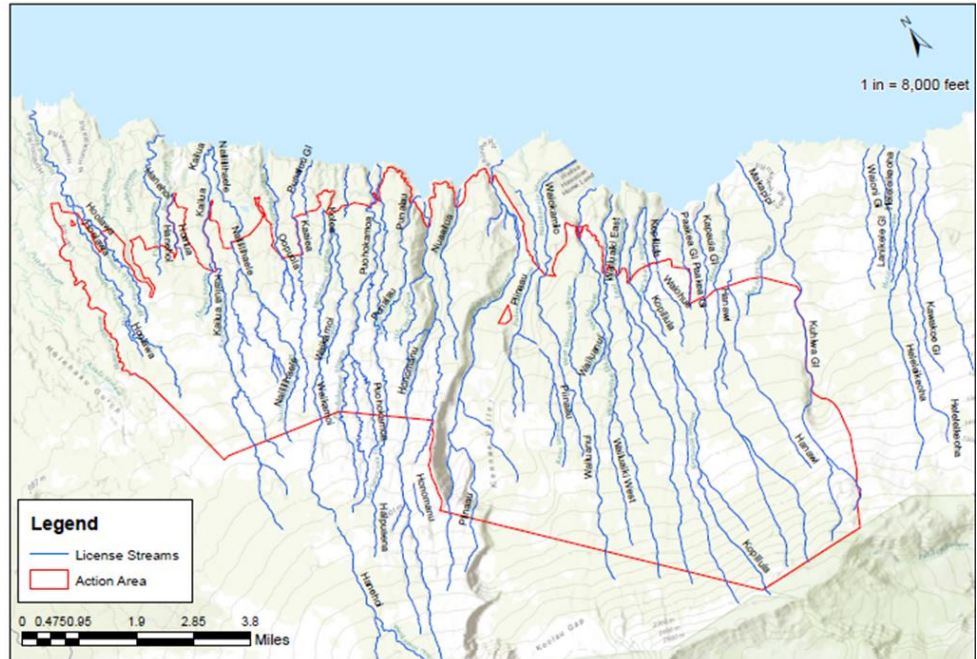
c. POINT OF CONTACT TELEPHONE NUMBER
808.946.2277

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

This project was not performed by Oceanit but managed and completed by Berna Senelly who is currently an Oceanit employee.

Services included

- Development of a profile of the existing social environment including demographics, relevant historical influences and public policies and plans
- Identification and analysis of community issues based on seven focus groups and interviews with key community influencers
- Identification of potential social impacts, including potential to realize public policies, sustainable and local agriculture, and community interest in access to water collection areas. In addition, social impacts on specific social groups were identified



License Area Streams

F. EXAMPLE OF PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 4		
21. TITLE AND LOCATION <i>(City and State)</i> Statewide Stormwater Management Program Plan O'ahu, Hawai'i		22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2010</td> <td>CONSTRUCTION <i>(If applicable)</i></td> </tr> </table>	PROFESSIONAL SERVICES 2010	CONSTRUCTION <i>(If applicable)</i>
PROFESSIONAL SERVICES 2010	CONSTRUCTION <i>(If applicable)</i>			

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Department of Transportation, Highways Division	b. POINT OF CONTACT NAME Mr. Robert Shin	c. POINT OF CONTACT TELEPHONE NUMBER 808/831-6705
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

To meet the requirements of a Consent Decree and the DOT Highways' NPDES Municipal Separate Storm Sewer System (MS4) permit, Oceanit was tasked with ensuring permit compliance with illicit connection/illegal discharge (IC/ID) elimination, industrial and commercial inspections (ICI), and waste load allocations (WLAs).

By employing a mobile data system developed by Oceanit's in-house information insights division, Oceanit completed the IC/ID inspections and reports required by the Consent Decree 5 months ahead of schedule. All ICI inspections and reports were also completed ahead of the strict deadlines set by the Highways' NPDES MS4 permit.



Oceanit helped DOT meet the requirements of a Consent Decree by preparing stormwater sampling and monitoring plans, collecting stormwater samples and testing and analyzing for key parameters during the course of the project. Annual WLA data reports were used to identify locations and types of potential permanent best management practices (BMPs) along State Highways right-of-ways and to quantify the Highways' contribution to the waste load entering environmentally impaired streams on Oahu. Oceanit's efforts on the WLA program complied with the requirements of the DOT Highways' NPDES MS4 permit. In 2008, the EPA auditor gave an excellent review of the programs for which Oceanit was responsible.

The approximate project cost was \$3.1 million.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
	Oceanit	Honolulu, Hawai'i	Prime consultant

Additional Information

H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

INTRODUCTION

Established in 1985 as an ocean engineering firm, Oceanit has expanded services to include civil, environmental, coastal, dam and reservoir engineering; environmental science; planning and permitting; and construction management. Oceanit's principal place of business at the company's headquarters located in downtown Honolulu. We also have an office in Houston, Texas, which serves as an operations center for pilot scale production and support of field development for a range of projects, products, and R&D in the Energy and Industrial sectors.

Today, Oceanit delivers transdisciplinary consulting engineering services. Our engineers, environmental scientists, field technicians, and planners work collaboratively to provide leading-edge reports and design concepts that minimize environmental impact, comply with regulatory requirements, and allow for efficient implementation.

Our team includes and experienced community planner and communications specialist who has designed and implemented dialogue programs for projects that have greatly benefitted from community participation.

PAST PERFORMANCE ON PROJECTS OF SIMILAR SCOPE FOR PUBLIC AGENCIES OR PRIVATE INDUSTRY

Project-proven professionals with a wide range of experience are available for project needs. Oceanit's staff members have extensive project management, engineering, environmental, and construction management experience with public works and private projects. In addition, staff members presented in this submittal have on-call and indefinite quantity contract experience and understand what it takes to complete multiple, concurrent assignments on a fast-track basis. Key personnel resumes for our *RiSE* team (Engineering and Planning) and subconsultants are presented in Section E of this submittal.

EXPERIENCE AND PROFESSIONAL QUALIFICATIONS RELEVANT TO THE PROJECT TYPE

Oceanit has provided engineering analysis, designs for new or rehabilitated utility and infrastructure systems, permitting services and construction management for over 36 years. Repeat clients includes the four Hawai'i counties, state, and federal agencies as well as private entities. This experience and in-depth knowledge of operations and procedures of these agencies provide our staff with the expertise to bring projects from conception to completion. Section F projects describe these relevant projects.

Civil Engineering. Oceanit is responsible for planning and design, environmental services, surveys and assessments, new or rehabilitated utility design, and construction management for a variety of civil engineering projects. During the past 5 years, Oceanit has worked on over 50 civil engineering projects with a combined contract value of \$4.6 million. These projects have involved a multitude of site improvements, such as roadways, embankments, revetments, seawalls, piers, parking lots, sidewalks, dams and reservoirs, and water tanks. The firm's engineering teams tackle a wide range of complex problems and deliver timely, cost-saving solutions to a diverse client base.

Environmental Engineering. Oceanit has completed many environmental engineering projects throughout Hawai'i and the Pacific. These projects include wetland restoration, bird habitat restoration, water and air quality monitoring, fish pond rehabilitation, hazardous materials assessment and remediation, underground storage tank removal and closure, total maximum daily load studies, water quality restoration in lakes, flood engineering, dam & reservoir safety, storm water compliance, best management practice design and implementation, and dredging. Oceanit typically provides complete permitting services for our clients, preparing applications, providing associated documentation and participating in consultations and meetings with regulatory agencies. We are familiar with and have worked with procedures, policies, and staff of county, state, and federal regulatory agencies and have successfully navigated the labyrinth of regulatory requirements for projects.

Water Resources Engineering. Oceanit's background includes the planning, analysis, design, and construction support of water pipelines, reservoirs, wastewater systems, and site development projects. Oceanit's engineers are adept in the areas of project cost control and comprehensive planning for water resources and utilities systems. With in-house expertise from the firm's environmental disciplines, Oceanit offers clients the ability to move projects efficiently from planning and design to construction. The firm has provided drainage and storm water engineering services for all divisions of the State of Hawai'i DOT and DLNR for over 30 years. Services have focused on storm water management; total maximum daily load determination; stream dredging; flood mitigation; hydrologic and hydraulic modeling; wetland improvement; storm water characterization; NPDES compliance monitoring for storm water, storm sampling, and analysis; and other water related issues.

Computer Science. Oceanit specializes in solving difficult IT problems ranging from small database and networking issues to large situational awareness databases for national clients. Oceanit's Information Insights (I/I) team specializes in developing mobile applications to enhance field data collection by improving the efficiency of field personnel and minimizing transcription errors. Solutions include the development of a mobile phone application for damage assessments for the State of Hawai'i Civil Defense to land information management systems for Kamehameha Schools. The firm's solutions are often integrated with geospatial databases, including GIS systems to provide geospatial analyses using both industry standard and open source software. Within the I/I team are business process re-engineering experts to determine client requirements early in the project. The firm's unique expertise and total quality management approach enables the ability to scale and manage complex projects ranging from a large \$15 million project to very small projects under \$20,000.

Project Management. Good project management monitors and coordinates all the key factors of communication, scheduling, cost, design, and quality assurance. The assigned Oceanit project manager will use a straightforward, computerized task order system that focuses on the key project issues and keeps track of all the details. Working with your staff, the project manager will develop specific task orders that define a discreet group of subtasks. Each task order will outline what is to be done, how it will be accomplished, the schedule and budget, the definition of the deliverable, and team member responsibilities. Oceanit's project manager will ensure that work progresses on schedule and within budget, and that appropriate actions are taken to keep the project progressing smoothly.

Construction Management. Oceanit's construction management team is experienced in the administration of construction contracts for projects in Hawai'i. Our construction specialists have the experience and practical skills to cultivate solid partnering relationships among the construction team. This expertise builds solid team consensus that leads to a well-defined project scope, streamlined procedures, and enhanced communication that minimizes owner and contractor risks. Services provided include contract document preparation, contract administration, and construction monitoring and inspection.

Organizational Change Management. Organizational change management (OCM) is an integrated practice that guides an organization through fundamental and lasting change. OCM gauges people's ability to adapt to and implement change, helps prepare people for change, deal with problems and conflicts, and implement necessary steps. If needed, Oceanit can provide OCM services to assist in evaluating processes, identifying problems, and determining the need and extent for change. In its most basic form, OCM aligns expectations, builds and integrates teams, provides governance and structure to the change implementation, and helps staff with the transition through communication, training and other means.

QUALITY ASSURANCE AND CONTROL

Oceanit has set procedures for conducting project activities. The project manager will select the most appropriate project team in consultation with all engineering division managers. The team may consist of engineers from appropriate disciplines, hydrologists, planners, and geologists depending on project requirements. The relevant project personnel attend an internal kickoff meeting where they are briefed on procedures to be followed for quality assurance and quality control (QA/QC) for planning, field work, sampling, data analysis, designs, and the preparation of plans and specifications, community interactions and other project activities.

Oceanit typically prepares a detailed QA/QC plan for each project and employs analysis methodologies commonly accepted by the engineering industry and approved by regulatory agencies to ensure acceptance and consistency in the data and designs produced. The Director of Engineering and two senior project managers from the fields of civil engineering, environmental science, and planning act as the final QA/QC team and check or proofread all deliverables for structure, technical accuracy and content, and then corrected as necessary prior to submittal to the client.

Client meetings are conducted at least on a monthly basis and at project milestones, to present progress, get clear direction on future actions, to discuss issues that come up during the implementation and to ensure client satisfaction. Oceanit has a designated project manager and an alternate staff person who can be contacted by the client any time.

CAPACITY TO ACCOMPLISH THE WORK IN THE REQUIRED TIME

The Oceanit team has executed multiple contracts involving a wide range of civil, environmental and coastal planning, engineering and field services. Our goal is to provide quality professional services for government agencies, while protecting properties, ensuring the safety of residents and conserving and enhancing the infrastructure and natural environment of Hawaii. Each of our staff is experienced in all phases of projects including planning, report preparation, permit applications, generating plans, specifications and cost estimates, field work, environmental monitoring and public outreach. Oceanit's consulting team has been steadily growing, with recently added personnel experienced in project design, construction

management, and community planning. With new team member support, the team has the capacity to service the subject project while simultaneously executing existing contracts.

INNOVATIVE/UNIQUE APPROACHES FOR FURNISHING SERVICES

Computer Modeling can be used as appropriate to assess existing and improved conditions on roadways and adjacent land. Oceanit has used modeling for evaluating potential solutions for projects requiring flood mitigation or drainage improvements and spillway adequacy studies for dams and reservoirs as well as design of temporary or permanent BMPs. We have conducted numerous Hydrologic and Hydraulic (H&H) analyses using computer models to develop Emergency Action Plans to simulate dam break scenarios and resulting flood inundation zones. GIS-based utility modeling was used for evaluation and design of water, sewer and storm drain systems at a number of Army bases on O'ahu. Modeling to simulate high wave conditions and wave penetration has proven useful for design of harbor and coastal roadway improvements. See below for Hilo Bayfront Highway screenshots of wave penetration animation.

3D Technology in Data Visualization. Oceanit engineers utilize 3D technology in data visualization. The technology helps us clearly convey existing site conditions and proposed improvements to our clients and affected stakeholders. An example of this capability was used for the Salt Lake Debris Basins BMP project to convert AutoCAD drawings to 3D renderings (see below). For the Hilo Bayfront Highway project, oblique views of proposed improvements can be overlaid on Google maps (bottom right) to provide a visual view of proposed improvements. In addition, Oceanit has an in-house 3-D printer that can build scaled physical models to convey the project concepts or ideas interactively with stakeholders and the public. The photos below show a 3-D model of the Ala Wai watershed, which flooding maps and animations can be projected onto. Oceanit used this tool to present the flooding results in client and community meetings.



AutoCAD drawing converted to 3D rendering



Hilo Bayfront Highway - Wave Penetration Animation

Oblique View of Proposed T-Groins



3D Model of Ala Wai Watershed



Showing Flooding Animations Using 3D Watershed Model

Remote Monitoring. Our engineers and technicians can remotely transmit vital information to our office. For example, we collected a years' worth of temperature and salinity data from acoustic doppler current profilers, thermistor strings, and salinity sensors mounted on two deep sea ocean buoys. The data was remotely downloaded to a laptop on shore and used to model the behavior of the plume created by Honouliuli Wastewater Treatment Plant (WWTP) effluent. A remote system was also used to collect and transmit dust data generated at a bridge widening construction site in Wailua, Kaua'i. The Contractor used the system to stay in compliance with State of Hawai'i regulatory requirements. The instrument systems included solar powered, real-time, continuous dust monitors and data recorders, a weather station to measure wind and rainfall, and software for dust mass concentration analysis and report generation. An automatic alarm notification system

was developed that warned Contractor site supervisors of impending non-compliance conditions with a text message or email, allowing sufficient time to correct the situation. Oceanit created a website that was updated every 10 minutes with the latest monitoring data and equipment status.

Information Technology Solutions. Oceanit's Innovation Insights (II) staff can work closely with our engineers and inspectors to provide forms, manuals and reports tailored to their needs and comply with all State and Federal requirements. Oceanit has the in-house capabilities to perform both Microsoft SQL Server and Oracle database development services for a variety of projects. Recent completed projects include the Statewide Dam Inventory for DLNR Dam Safety, Water Resources Information Management System and the Enforcement Management System for DLNR DOCARE. We also have recently completed projects for DOH, C&C of Honolulu, the County of Hawaii Department of Water and federal agencies.

Machine Learning and Artificial Intelligence. Oceanit's AI team has developed machine learning AI applications that allow computers to digest data, recognize patterns, and infer answers to critical strategic problems. Some examples across various industries include rapid infrastructure damage assessment, traffic studies, erosion rate definition, object/crowd counting, state of health prediction, predictive maintenance, and detecting material composition using light absorption.

Student Outreach Program. Oceanit is a major advocate for bringing science and technology to schools around Hawai'i and bringing students into real engineering projects. Our mission is to empower Hawai'i's kids with skills and experiences that are Human-, Business-, and Technical-based, so they can build greater prosperity for all of Hawai'i. Oceanit's Altino program partners with local K-12 schools to train teachers and students to learn coding and programming in interactive and entertaining ways. We also provide learning opportunities to High School students by involving them in real engineering projects, if allowed and desired by clients.

REFERENCES

Oceanit's project team has the experience and qualifications to complete the requested professional services on time and within budget. All project deliverables will meet or exceed your standards and expectations. The best judges of the firm's past performance are the clients who have benefitted from Oceanit's efforts. Please contact the following references to verify service, technical skills, quality, and schedule and budget performance. All references listed below have worked with Oceanit within the preceding year.

- Ms. Diana Lee, Project Manager
State of Hawai'i, Department of Transportation, Airports Division
808/953-5182, diana.lee@hawaii.gov
- Ms. Mung Fa Chung, Engineering Project Manager
State of Hawaii, Department of Transportation, Highways Division
808/832-3403, mungfa.chung@hawaii.gov
- Mr. Finn D. McCall, P.E.
State of Hawai'i, Department of Land and Natural Resources, DOBOR
808/587-3250, finn.d.mccall@hawaii.gov
- Mr. Brandon H.L. Shima
University of Hawaii Office of Project Delivery
808/216-4780; bshima@hawaii.edu

CONFLICT OF INTEREST

Oceanit does **not** have any conflict of interest in performing services for the State of Hawai'i.

I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE



32. DATE

12 June 2024

33. NAME AND TITLE

Ken Cheung, PhD, PE, Science and Engineering Director

General Qualifications

PROFESSIONAL SERVICE PROVIDER QUALIFICATIONS						1. SOLICITATION NUMBER (if any) N/A	
PART II – GENERAL QUALIFICATIONS (If a firm has branch offices, complete for each specific branch office seeking work.)							
2a. FIRM (OR BRANCH OFFICE) NAME Oceanit Laboratories, Inc.					3. YEAR ESTABLISHED 1985		4. DUNS NUMBER 144540283
2b. STREET 828 Fort Street Mall, Suite 600					5. OWNERSHIP		
					a. TYPE Corporation		
2c. CITY Honolulu			2d. STATE HI	2e. ZIP CODE 96813	b. SMALL BUSINESS STATUS Not Applicable		
6a. POINT OF CONTACT NAME AND TITLE Dale Uno, Program Administrator/Proposal Manager					7. NAME OF FIRM (if block 2a is a branch office)		
6b. TELEPHONE NUMBER 808/531-3017		6c. E-MAIL ADDRESS duno@oceanit.com					
8a. FORMER FIRM NAME(S) (If any) Not Applicable					8b. YEAR ESTABLISHED		8c. UNIQUE ENTITY IDENTIFIER
9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS			
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)	
		(1) FIRM	(2) BRCH.				
02	Administrative	5		A06	Airports; Terminals and Hangars; Freight Handling	5	
07	Biologist	2		A10	Asbestos Abatement	3	
08	CADD Technician	1		C07	Coastal Engineering	5	
11	Chemist	2		C15	Construction Management	4	
12	Civil Engineer	5		D02	Dams (Earth; Rock); Dikes; and Levees	4	
14	Computer Programmer	9		D08	Dredging Studies and Design	1	
15	Construction Inspector	2		E09	Environmental Impact Assessments or Statements	4	
16	Construction Manager	2		E11	Environmental Planning	1	
17	Corrosion Engineer	3		E12	Environmental Remediation	4	
18	Cost Engineer/Estimator	1		E13	Environmental Testing and Analysis	2	
23	Environmental Engineer	1		H01	Harbors; Jetties; Piers, Ship Terminal Facilities	2	
24	Environmental Scientist			H13	Hydrographic Surveying	1	
32	Hydraulic Engineer	2		I06	Irrigation; Drainage	2	
40	Materials Engineer	4		O02	Oceanographic Engineering	1	
47	Planner; Urban/Regional	1		P05/P06	Planning (Community and Project)	1	
48	Project Manager	4		R11	Rivers; Canals; Waterways; Flood Control	4	
49	Remote Sensing Specialist	2		S10	Surveying; Platting; Mapping; Flood Plain Studies	2	
58	Technician/Analyst	2		S13	Storm water Handling and Facilities	4	
62	Water Resources Engineer	1		W03	Water Supply; Treatment and Distribution	4	
	Other Employees	72					
	TOTAL	123					
11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER					
a. Federal Work		8		1. Less than \$100,000		6. \$2 million to less than \$5 million	
b. Non-Federal Work		7		2. \$100,000 to less than \$250,000		7. \$5 million to less than 10 million	
c. Total Work		8		3. \$250,000 to less than \$500,000		8. \$10 million to less than 25 million	
				4. \$500,000 to less than \$1 million		9. \$25 million to less than \$50 million	
				5. \$1 million to less than \$2 million		10. \$50 million or greater	
12. AUTHORIZED REPRESENTATIVE							
The foregoing is a statement of facts.							
a. SIGNATURE Ken Cheung, PhD, PE Science and Engineering Director						a. DATE 5/12/2024	

**FEDERAL STANDARD FORM 330
SUPPLEMENTAL QUESTIONS**

If using the FS Form 330, please provide the following data about your firm. If the questions do not apply, enter "N/A".

- | | |
|---|---------------------------------|
| 1. Number of employees: | <u>20 (Engineering Section)</u> |
| 2. Number of active projects as prime: | <u>51</u> |
| 3. Number of active projects as associate: | <u>0</u> |
| 4. Total estimated construction cost of present projects (only portion for which your firm is responsible): | <u>\$ 60,000,000.00</u> |

Appendix I

Oceanit Key Personnel Certifications

MyPVL

DCCA Professional Vocational Licensing

We are currently experiencing a high volume of users on this site resulting in unusually slow lag times. We apologize and appreciate your patience as we work on resolving this issue. Please try again later.

General License

**License ID**

PE-13669

License Type

PROFESSIONAL ENGINEER

Legal License Name

JASON Y LEE

Status

CURRENT, VALID & IN GOOD STANDING

Entity Type

INDIVIDUAL

Active/Inactive

ACTIVE

Original License Date

11/23/2009

Expiration Date

04/30/2026

Restriction

--

Trade/Professional Name

--

Special Privilege

--

Conditions & Limitations

--

Class Prefix

--

Business Code

--

Educational Code

--

Business Address

--

Other Business/Person/DBA Names

 Records Per Page Columns to Show

Search:

Name	Effective Date	Termination Date
NO DATA AVAILABLE IN TABLE		

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MyPVL

DCCA Professional Vocational Licensing

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General License

**License ID**

PE-18274

License Type

PROFESSIONAL ENGINEER

Legal License Name

JORDAN W MONIUSZKO

Status

CURRENT, VALID & IN GOOD STANDING

Entity Type

INDIVIDUAL

Active/Inactive

ACTIVE

Original License Date

12/11/2018

Expiration Date

04/30/2026

Restriction

--

Trade/Professional Name

--

Special Privilege

--

Conditions & Limitations

--

Class Prefix

--

Business Code

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Educational Code

--

Business Address

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Other Business/Person/DBA Names

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MyPVL

DCCA Professional Vocational Licensing

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General License

**License ID**

PE-10020

License Type

PROFESSIONAL ENGINEER

Legal License Name

KEN C K CHEUNG

Status

CURRENT, VALID & IN GOOD STANDING

Entity Type

INDIVIDUAL

Active/Inactive

ACTIVE

Original License Date

07/18/2000

Expiration Date

04/30/2026

Restriction

--

Trade/Professional Name

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Special Privilege

--

Conditions & Limitations

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Class Prefix

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Business Code

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Educational Code

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Business Address

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Other Business/Person/DBA Names

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MyPVL

DCCA Professional Vocational Licensing

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General License

**License ID**

PE-20193

License Type

PROFESSIONAL ENGINEER

Legal License Name

LINYAN LI GOO

Status

CURRENT, VALID & IN GOOD STANDING

Entity Type

INDIVIDUAL

Active/Inactive

ACTIVE

Original License Date

02/21/2023

Expiration Date

04/30/2026

Restriction

--

Trade/Professional Name

--

Special Privilege

--

Conditions & Limitations

--

Class Prefix

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Business Code

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Educational Code

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Business Address

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Other Business/Person/DBA Names

 Records Per Page Columns to Show

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MyPVL

DCCA Professional Vocational Licensing

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General License

**License ID**

PE-16715

License Type

PROFESSIONAL ENGINEER

Legal License Name

OM S DAS

Status

CURRENT, VALID & IN GOOD STANDING

Entity Type

INDIVIDUAL

Active/Inactive

ACTIVE

Original License Date

10/12/2015

Expiration Date

04/30/2026

Restriction

--

Trade/Professional Name

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Special Privilege

--

Conditions & Limitations

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Class Prefix

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Business Code

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Educational Code

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Business Address

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Other Business/Person/DBA Names

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MyPVL

DCCA Professional Vocational Licensing

We are currently experiencing a high volume of users on this site resulting in unusually slow lag times. We apologize and appreciate your patience as we work on resolving this issue. Please try again later.

General License

**License ID**

PE-8678

License Type

PROFESSIONAL ENGINEER

Legal License Name

PATRICK K SULLIVAN

Status

CURRENT, VALID & IN GOOD STANDING

Entity Type

INDIVIDUAL

Active/Inactive

ACTIVE

Original License Date

09/18/1995

Expiration Date

04/30/2026

Restriction

--

Trade/Professional Name

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Special Privilege

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Conditions & Limitations

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Class Prefix

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Business Code

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Educational Code

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Business Address

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Other Business/Person/DBA Names

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Appendix II

Oceanit Brochure

OCEANIT IS REIMAGINING INNOVATION, TO BREAK THE BONDS OF 'NORMAL' AND SOLVE THE IMPOSSIBLE.

Oceanit is a 'Mind to Market' company founded in 1985 on Oahu, Hawai'i. We have earned a world-class reputation for moving fundamental scientific breakthroughs from the lab to the market. Built upon our values of Curiosity, Community, and Ohana, we are a skilled group of scientists, engineers, innovators, and entrepreneurs delivering solutions, products, and services to clients across a multitude of diverse industries.

Mind to Market is the disciplined process that allows us to deliver our breakthrough science to real-world users. Oceanit delivers cut-edge solutions, services, and products to customers across a vast range of industries. Using a variety of paths to market - including corporate co-development, private equity financing, managed acquisition, and direct manufacturing - Oceanit delivers disruptive innovation to the world.

Oceanit practices a proprietary discipline we call Intellectual Anarchy™ that reimagines innovation - empowering our team to break down silos, transcend disciplines, and cross-pollinate ideas and expertise. We create breakthrough ideas, insights, discoveries, and developments as an interdisciplinary force.



Delivering the Future

Oceanit is reimagining innovation to break the bonds of normal and solve the impossible. We are ambitious explorers and discoverers. By embracing transdisciplinary teams and thinking, we create value through innovative science, technology and engineering to make an extraordinary impact on our future.

RiSE

The Resilient Sustainable Engineering (RiSE) team is focused on innovative, responsible, effective, and sustainable engineering solutions. RiSE delivers infrastructure, community works, and ecosystems that are capable of surviving and functioning under chronic stress and recovering quickly from extreme events.

Science & Technology

The S&T team is made up of scientists, engineers, academics, and doctors working at the jagged edge of science to infuse innovation across industries. We develop, sustain, and improve upon technologically superior products and services – while becoming a trusted and valued partner to our customers.

Innovation Consulting

The Innovation Consulting (IC) team contributes to our clients' success and evolution by practicing Design Thinking and empowering organizational change. IC derives value from data, user needs, and process pain points - providing relevant and actionable insights – to solve human-centric problems.

Build a Sustainable Future Through Innovative, Responsible, and Impactful Engineering Solutions

For over 35 years, Oceanit has worked to solve the unique and diverse engineering challenges facing coastal communities and ecosystems. Our mission is to develop innovative and sustainable engineering solutions that work **for** people and **with** the environment – solutions that will survive and function for decades to come, resisting chronic stress and recovering from extreme events.

The Resilient and Sustainable Engineering (RiSE) team is made up of engineers, scientists, and planners working together to build a positive future for Hawai'i and other Pacific communities in the

face of the steep ecological and economic challenges of climate change.

Utilizing advanced modeling, Design Thinking, and artificial intelligence technologies, RiSE provide leading-edge consulting, reports, and designs that go beyond traditional engineering to minimize environmental impact while maximizing sustainable results. Oceanit is building a better future for our islands and beyond through innovative, responsible, and impactful engineering solutions.

Coastal Engineering



RiSE focuses on dynamic coastal processes, including the impacts of sea-level rise, reef depletion, and beach erosion on communities, infrastructure, and natural ecosystems.

- Beach nourishment & shoreline erosion protection
- Advanced data-capture & artificial intelligence-assisted analysis
- Coastal process analysis and modeling
- Submerged reef design

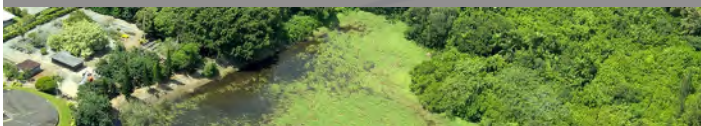
Environmental Engineering



RiSE provides innovative solutions to protect the environment, monitor our precious ecosystems, and safeguard habitat resources. Our philosophy is to serve as environmental stewards of our land, working with natural processes to ensure enduring success.

- Environmental monitoring pollution control
- Wetland, marsh, and ecosystem restoration and monitoring
- Document preparation for planning and permitting
- Environmental assessments

Water Resources Engineering



RiSE has extensive experience and expertise working with water resources and their associated range of economic, environmental, and social benefits.

- Flood control design and modeling
- Wastewater/outfall monitoring
- Dam/reservoir inspection, decommissioning, and rehabilitation
- Groundwater resource development and assessment

Civil Engineering



RiSE works on a variety of projects to install, repair, upgrade, or replace utility and transportation infrastructure, with careful consideration for the people who will use them.

- Harbor and utilities engineering
- Construction permitting and construction management
- Site development design
- Airport and transportation infrastructure

SCIENCE & TECHNOLOGY | SOLVING THE IMPOSSIBLE

Oceanit's Science & Technology team identifies impactful problems and develops groundbreaking, transdisciplinary solutions on the jagged edge of science. The team of scientists, engineers, academics, and MD's are delivering a better future for the world. We are pioneering a new model of innovation: driving breakthrough technologies from Mind to Market: shepherding radical ideas from theory, to field trial prototypes, and onward to real-world applications.

Our interdisciplinary projects blend disciplines, cross-pollinate ideas, and deliver human-centered solutions. We seek to develop, sustain, and continually improve-upon technologically superior products & services across diverse industries.

Our expertise includes:

- Nanotechnology & Materials
- Artificial intelligence
- Sensors & Communications
- Computer Vision & Software
- Life Sciences: therapeutics & treatments
- Aerospace & Defense
- Energy, oil & gas
- IoT

Nanotechnology

Oceanit has developed a range of nanocomposite materials which impact many industries. These materials have a broad spectrum of advanced functions like self-healing, wettability, hydrophobicity, ice-phobicity, oleophobicity and more.



Artificial Intelligence

Oceanit is delivering groundbreaking work in the field of Artificial Intelligence; not just machine learning and neural nets, but next generation 'anthronoetic,' or "human-style" cognition based on moral linguistics. We call this AI "NoME": Noetic Mathematical Engine.



Sensors & Communication

Smart material sensors, precision tracking, advanced mesh networks, and global positioning are just a few of the sensor & communication technologies worked on at Oceanit, that impact industries such as Defense, Energy, Transportation, and more.



Life Sciences

Life sciences at Oceanit encompasses research, development, technology transfer and commercialization of medical products and devices. We bring together work in Nanotechnology, Software & Sensors to develop novel approaches to life-saving problems.



Computer Vision

Oceanit is pioneering ways to make computer vision processing easy and intuitive. The in-house developed Versatile Image Processing Architecture (VIPA) enables rapid prototyping and fluid creative processes through an intuitive user interface; ingesting data from a variety of disparate sources.



Industrial Innovations

Oceanit is developing a host of advanced technologies for the industrial sector. From flexible fuel cells and batteries to noise-reducing blast nozzles and advanced metal plating systems, our engineering and scientists are bringing their combined expertise to deliver cutting-edge industrial sector solutions.



Appendix III
Proof of Company Insurance
Certificate of Vendor Compliance



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

11/17/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must have **ADDITIONAL INSURED** provisions or be endorsed. If **SUBROGATION IS WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Atlas Insurance Agency, Inc. 201 Merchant Street Suite 1100 Honolulu HI 96813	CONTACT NAME: William Sandkuhler PHONE (A/C, No, Ext): (808) 533-3222 FAX (A/C, No): (808) 533-8777 E-MAIL ADDRESS: INSURER(S) AFFORDING COVERAGE INSURER A: *Crum & Forster Specialty Insurance Comp INSURER B: First F&C Ins.of HI., Inc INSURER C: **Carolina Casualty Insurance Company INSURER D: *Broker: NMF Insurance Inc. INSURER E: **Broker: Amwins Insurance Brokerage, LLC INSURER F:	NAIC # 44520 41726 10510
INSURED Oceanit Laboratories, Inc. 828 Fort Street Mall, Suite 600 Honolulu HI 96813		

COVERAGES**CERTIFICATE NUMBER:** 23-24 CCG3**REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	☒ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☒ OCCUR ☒ Professional Liability GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☐ PRO-JECT ☐ LOC OTHER:			*This insurance contract is issued by an Insurer which is not licensed by the State of Hawaii and is not subject to its regulation or examination. If the Insurer is found insolvent, claims under this contract are not covered by any guaranty fund of the State of Hawaii. *EPK145775 Broker Name: NMF Insurance Inc / IC International License #: 118063 Address: 1022 Bethel Street, Suite 100, Honolulu, Hawaii 96813	11/13/2023	11/13/2024	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 25,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 Professional Liability \$ 1,000,000
B	AUTOMOBILE LIABILITY ☒ ANY AUTO OWNED AUTOS ONLY ☐ SCHEDULED AUTOS ☒ HIRED AUTOS ONLY ☒ NON-OWNED AUTOS ONLY			CBA10002198773	11/13/2023	11/13/2024	COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ 1,000,000 BODILY INJURY (Per accident) \$ 1,000,000 PROPERTY DAMAGE (Per accident) \$ 1,000,000 \$
	UMBRELLA LIAB ☐ OCCUR EXCESS LIAB ☐ CLAIMS-MADE DED ☐ RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$ \$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) ☐ Y / N If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		**KEY0162361	11/13/2023	11/13/2024	☒ PER STATUTE ☐ OTH-ER E.L. EACH ACCIDENT \$ 500,000 E.L. DISEASE - EA EMPLOYEE \$ 500,000 E.L. DISEASE - POLICY LIMIT \$ 500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Proof of insurance certificate provided for coverages indicated.

CERTIFICATE HOLDER**CANCELLATION**

Oceanit Laboratories, Inc. 828 Fort Street Mall, Ste 600 Honolulu HI 96813-0000	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE
---	---

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STATE OF HAWAII
STATE PROCUREMENT OFFICE

CERTIFICATE OF VENDOR COMPLIANCE

This document presents the compliance status of the vendor identified below on the issue date with respect to certificates required from the Hawaii Department of Taxation (DOTAX), the Internal Revenue Service, the Hawaii Department of Labor and Industrial Relations (DLIR), and the Hawaii Department of Commerce and Consumer Affairs (DCCA).

Vendor Name: OCEANIT LABORATORIES, INC.

DBA/Trade Name: OCEANIT LABORATORIES, INC.

Issue Date: 05/22/2024

Status: **Compliant**

Hawaii Tax#: 20369234-01

New Hawaii Tax#:

FEIN/SSN#: XX-XXX8128

UI#: XXXXXX6037

DCCA FILE#: 60203

Status of Compliance for this Vendor on issue date:

Form	Department(s)	Status
A-6	Hawaii Department of Taxation	Compliant
8821	Internal Revenue Service	Compliant
COGS	Hawaii Department of Commerce & Consumer Affairs	Compliant
LIR27	Hawaii Department of Labor & Industrial Relations	Compliant

Status Legend:

Status	Description
Exempt	The entity is exempt from this requirement
Compliant	The entity is compliant with this requirement or the entity is in agreement with agency and actively working towards compliance
Pending	A status determination has not yet been made
Submitted	The entity has applied for the certificate but it is awaiting approval
Not Compliant	The entity is not in compliance with the requirement and should contact the issuing agency for more information